#### **Submittal Register**

Contract Number.	r: N62470-08-D-1006	TO No.:		WE-23			TO Title:		Interim Emergency ivated Carbon (LPC	Liquid Phase Granular GAC) Unites	Location:		Levittown, New York		Contractor:	V E A J O
Α		С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q
Spec Section	Shop Drawing Title	Para. Number	Subcontractor	Approving Authority	Other Reviewers	Sequential Number	Submittal Number	Submission Date	AGVIQ-CH2M Review Date	AGVIQ-CH2M Disposition	AGVIQ-CH2M Transmit Date	Contracting Officer Received	Contracting Officer Disposition	Contracting Officer Return	Contractor Return	Remarks
Scope of Work						<u>.                                      </u>										
01 01 00 M	Markup Drawings	1.3		Contracting Officer												None Required
	lealth and Safety Plan	Section 1	Phillip Ross	AGVIQ-CH2M HILL		19	019-010100-3	2/17/2012	2/23/2012	Not Subject to Review	NA	NA	NA	NA	2/23/2012	Contractor to abide by AGVIQ-CH2M HILL APP.
	Jtility Mark Out Ticket	Section 2	Phillip Ross	AGVIQ-CH2M HILL		20	020-010100-4	2/17/2012	2/21/2012	Not Subject to Review	2/21/2012	2/21/2012	Receipt Acknowledged	2/21/2012	2/21/2012	Contractor to shide by ACMIO CHOMALIII ADD
	Activity Hazard Analysis	Section 1	Phillip Ross	AGVIQ-CH2M HILL		33	033-010100-5	3/2/2012	3/13/2012	Not Subject to Review	NA	NA	NA	NA	3/13/2012	Contractor to abide by AGVIQ-CH2M HILL APP.  Second submittal received 2/27/2012, also Revise and
01 35 10 Er	Frosion and Sediment Control Plan	Section 1	Phillip Ross	AGVIQ-CH2M HILL		21, 34	034-013510-1	3/2/2012	3/13/2012	Approved as Noted	3/13/2012	3/15/2012	Receipt Acknowledged	3/15/2012	3/13/2012	Resubmit
	Crane Lift Plan	Section 2	Phillip Ross	Government Approval		43	042-010100-6	3/22/2012	3/23/2012	Approved	3/23/2012	4/2/2012	Receipt Acknowledged	3/15/2012	N/A	
	DPW Approval Letter	Section 1	AGVIQ/CH2M HILL	AGVIQ-CH2M HILL		50	050-010100-7	3/30/2012	3/30/2012	Approved	3/30/2012	4/2/2012	Receipt Acknowledged	3/15/2012	N/A	
Cast-In-Place C		4.0	DI III. D	40)/10 01/01411111		1 00 1	000 000000 4	0/0/0040	0/5/0040	A I Ni . t . I	0/5/0040	0/5/0040	Descript Ashara Island	0/0/0040	0/5/0040	
-	Shop Drawings - Formwork	1.3	Phillip Ross Phillip Ross	AGVIQ-CH2M HILL		32	032 - 033000-1 022-033000-2	3/2/2012 2/17/2012	3/5/2012 2/20/2012	Approved as Noted	3/5/2012 2/20/2012	3/5/2012 2/20/2012	Receipt Acknowledged	3/6/2012 2/23/2012	3/5/2012 2/23/2012	
	Shop Drawings - Reinforcing Steel		'	Government Approval		22				Approved			Approved			Curing materials to conform to ASTM c 171. Resubmission
03 30 00 Pr	Product Data - Materials for Curing Concrete	1.3	Phillip Ross	Government Approval		24	024-033000-6	2/17/2012	2/20/2012	Approved	2/20/2012	2/20/2012	Approved as Noted	2/23/2012	2/23/2012	not required. MSDS Included
03 30 00 Pr	Product Data - Joint Filler	1.3	Phillip Ross	AGVIQ-CH2M HILL		25	025-033000-7	2/28/2012	3/12/2012	Approved as Noted	3/13/2012	3/15/2012	Receipt Acknowledged	3/15/2012	3/13/2012	
03 30 00 Pr	Product Data - Portland Cement	1.3	Phillip Ross	AGVIQ-CH2M HILL		23	023-033000-4	2/17/2012	2/20/2012	Approved	2/20/2012	2/20/2012	Receipt Acknowledged	2/23/2012	2/20/2012	MSDS Included
-	Product Data - Vapor Barrier	1.3														Not Required for Project
	Design Data - Concrete Mix Design	1.3	Phillip Ross	Government Approval		26	026-033000-9	2/17/2012	2/20/2012	Approved	2/20/2012	2/20/2012	Approved	2/23/2012	2/23/2012	MSDS x2 Included
	Fest Reports - Concrete Sampling and Testing - Footer 7 Day Breaks	1.3	PRI/LIT	AGVIQ-CH2M HILL		40	040 033000-11	3/16/2012	3/21/2012	Approved	3/21/2012	3/22/2012	Receipt Acknowledged	3/22/2012	3/21/2012	
03 30 00 Te	Test Reports - Concrete Sampling and Testing - Pad 7 Day Breaks	1.3	PRI/LIT	AGVIQ-CH2M HILL		44	044 033000-12	3/22/2012	3/27/2012	Approved as Noted	3/27/2012	3/27/2012	Receipt Acknowledged	3/27/2012	3/27/2012	
03 30 00 Te	Fest Reports - Concrete Sampling and Testing - Footer 14 Day Breaks	1.3	PRI/LIT	AGVIQ-CH2M HILL		45	045 033000-13	3/22/2012	3/27/2012	Approved as Noted	3/27/2012	3/27/2012	Receipt Acknowledged	3/27/2012	3/27/2012	
03 30 00 Pa	est Reports - Concrete Sampling and Testing - Pad 14 Day Breaks	1.3	PRI/LIT	AGVIQ-CH2M HILL		48	048 033000-14	3/29/2012	3/30/2012	Approved as Noted	3/30/2012	4/2/2012	Receipt Acknowledged	4/2/2012	3/30/2012	
03 30 00 Fo	Test Reports - Concrete Sampling and Testing - Tooter 28 Day Breaks	1.3	PRI/LIT	AGVIQ-CH2M HILL		51	051 033000-15	5/11/2012	5/11/2012	Approved	5/11/2012	5/14/2012	Receipt Acknowledged	5/14/2012	N/A	
	est Reports - Concrete Sampling and Testing - Pad 28 Day Breaks	1.3	PRI/LIT	AGVIQ-CH2M HILL		52	051 033000-16	5/11/2012	5/11/2012	Approved	5/11/2012	5/14/2012	Receipt Acknowledged	5/14/2012	N/A	
	Soil Density Test Results	3.2.2	PRI/LIT	AGVIQ-CH2M HILL		35	035 033000-8	3/7/2012	3/8/2012	Approved	3/8/2012	3/8/2012	Receipt Acknowledged	3/9/2012	3/8/2012	
	Soil Density Test Results	3.2.2	PRI/LIT	AGVIQ-CH2M HILL		36	036 033000-9	3/12/2012	3/14/2012	Approved	3/14/2012	3/15/2012	Receipt Acknowledged	3/15/2012	3/14/2012	Coloration distance with annulus of a charitant
	Material Safety Data Sheets Certificates - Reinforcing Steel Mill Certificates	1.6.2.2	PRI/York	AGVIQ-CH2M HILL		39	039 033000-10	3/9/2012	3/21/2012	Approved	3/21/2012	3/22/2012	Receipt Acknowledged	3/22/2012	3/21/2012	Submitted along with product submittals.
Water Piping	Johnned Tremmerening Greet Hims Gertimedates	1.5	FIXI/TOIK	AGVIQ-CHZWITHLE		33	039 033000-10	3/9/2012	3/21/2012	Apploved	3/21/2012	3/22/2012	Receipt Acknowledged	3/22/2012	3/21/2012	
	Product Data - water main piping	1.4	Phillip Ross	AGVIQ-CH2M HILL		56	056 331100 - 2	5/11/2012	5/11/2012	Approved	5/11/2012	5/11/2012			N/A	
	Product Data - fittings and joints	1.4	AQUA-NY	AGVIQ-CH2M HILL		37	037 331100 - 2.1.1	3/14/2012	3/14/2012	Approved	3/14/2012	3/15/2012	Receipt Acknowledged	3/15/2012	N/A	
33 11 00 PI	Product Data - butterfly valves	1.4	AQUA-NY	Variation - Government		38	038 331100 - 1.4	3/14/2012	3/14/2012	Approved	3/14/2012	3/15/2012	Approved	3/20/2012	N/A	Wrongly specified in section 40 05 13 as above grade equipment.
33 11 00 Pr	Product Data - butterfly valves v2	1.4	AQUA-NY	Variation - Government		49	049 331100 - v2	3/30/2012	3/30/2012	Approved	3/30/2012	4/2/2012	Approved	4/2/2012	N/A	Wrongly specified in section 40 05 13 as above grade equipment.
33 11 00 Pr	Product Data - check valve	1.4	Phillip Ross	Variation - Government		41	041 331100-1	3/21/2012	3/21/2012	Approved	3/21/2012	3/22/2012	Approved	3/22/2012	3/22/2012	
	est Results - Bacteriological Disinfection	1.4	AGVIQ-CH2M HILL	AGVIQ-CH2M HILL		55	055 331100-3	5/11/2012	5/11/2012	Approved	5/11/2012	5/14/2012	Receipt Acknowledged	5/14/2012	N/A	
	est Results - Hydrostatic Testing	1.4														Provided in Submittal 057 - 400513-9
	Test Results - Valve Testing	1.4														Provided in Submittal 057 - 400513-9
Pipelines, Proce		1.4			T T	1 1	ı								T	
	Product Data - piping systems Pressure Reducing Valve	1.4 2.9.5	Calgon	AGVIQ-CH2M HILL		1	001 - 40 05 13 - 2.9.5	2/10/2012	2/14/2012	Approved	2/15/2012	2/15/2012	Received	2/15/2012	2/17/2012	
	Air Release	2.9.5	Calgon	AGVIQ-CH2M HILL AGVIQ-CH2M HILL		9	001 - 40 05 13 - 2.9.5	2/10/2012	2/14/2012	Approved	2/15/2012	2/15/2012	Receipt Acknowledged	2/15/2012	2/17/2012	
	Expansion Joint	2.9.1	Calgon	AGVIQ-CH2M HILL		10	010 - 40 05 13 - 2.9.3	2/16/2012	2/17/2012	Approved	2/17/2012	2/21/012	Receipt Acknowledged	2/21/012	2/17/2012	
	Rupture Disk	2.9.4	Calgon	AGVIQ-CH2M HILL		11	011 - 40 05 13 - 2.9.4	2/16/2012	2/17/2012	Approved	2/17/2012	2/21/012	Receipt Acknowledged	2/21/012	2/17/2012	
	Swing Check Valve	2.6.3.1	Phillip Ross	AGVIQ-CH2M HILL		15	015-400513-2	2/15/2012	2/21/2102	Submittal Not Required	NA NA	NA NA	NA NA	NA NA	2/21/2012	Equipment to be provided by AQUA-NY
	Pipe, Fittings, and Accessories	2.2	Phillip Ross	AGVIQ-CH2M HILL		17	017-400513-1	2/16/2012	2/21/2102	Submittal Not Required	NA	NA	NA	NA	2/21/2012	Equipment to be provided by AQUA-NY
40 05 13	Gate Valve	2.6.5	Phillip Ross	AGVIQ-CH2M HILL		18, 31	031-400513-3	2/29/2012	3/13/2012	Approved	3/13/2012	3/15/2012	Receipt Acknowledged	3/15/2012	3/13/2012	
	PVC Primer	2.3	Phillip Ross	AGVIQ-CH2M HILL		46	046 400513-7	3/27/2012	3/27/2012	Approved	3/27/2012	3/27/2012	Receipt Acknowledged	3/27/2012	3/27/2012	MSDS Included
	PVC Solvent cement	2.3	Phillip Ross	AGVIQ-CH2M HILL		47	047 400513-6	3/27/2012	3/27/2012	Approved	3/27/2012	3/27/2012	Receipt Acknowledged	3/27/2012	3/27/2012	MSDS Included
	RPZ Backflow Preventer	1.4	AGVIQ-CH2M HILL	Government Approval		42	042 - 400513-4	3/21/2012	3/21/2012	Approved	3/21/2012	3/22/2012	Approved	3/22/2012	3/22/2012	
	ASDS - each chemical	1.4	ACMO CHOMALIII	ACMO CHOMATILL		E7	067 400640.0	E/14/0040	E/4.4/0040	Approxis -	E/14/0040				NI/A	Submitted along with product submittals.
	est Reports - Hydrostatic Tests est Reports - Pipe leakage Tests	1.4	AGVIQ-CH2M HILL	AGVIQ-CH2M HILL		57	057 - 400513-9	5/14/2012	5/14/2012	Approved	5/14/2012				N/A	Provided in Submittal 057 - 400513-9
40 UO 1.0 11/	est Reports - Pipe leakage Tests  Test Reports - Valve Tests	1.4										+				Provided in Submittal 057 - 400513-9 Provided in Submittal 057 - 400513-9
																Provided in Submittal 055 - 331100-2
40 05 13 Te	est Reports - Disinfection	1.4														
40 05 13 Te	est Reports - Disinfection As-Built Drawings	1.4	AGVIQ-CH2M HILL	AGVIQ-CH2M HILL		53	053 - 400513-8	5/11/2012	5/11/2012	Approved	5/11/2012	5/14/2012	Receipt Acknowledged	5/14/2012	N/A	
40 05 13 Te 40 05 13 Te 40 05 13 As	· · · · · · · · · · · · · · · · · · ·		AGVIQ-CH2M HILL AGVIQ-CH2M HILL	AGVIQ-CH2M HILL Government Approval		53 58	053 - 400513-8 058	5/11/2012 7/7/2012	5/11/2012 7/7/2012	Approved Approved	5/11/2012 7/10/2012	5/14/2012 7/10/2012	Receipt Acknowledged Approved	5/14/2012 7/10/2012	N/A N/A	PRV for influent & effluent lines

#### Submittal Register

Contract Numb	ber: N62470-08-D-1006	TO No.:		WE-23			TO Title:		Interim Emergency tivated Carbon (LPC	Liquid Phase Granular GAC) Unites	Location:		Levittown, New York		Contractor:	O CAN HILL
Α		С	D	E	F	G	Н		J	K	L	М	N	0	Р	Q
Spec Section	Shop Drawing Title	Para. Number	Subcontractor	Approving Authority	Other Reviewers	Sequential Number	Submittal Number	Submission Date	AGVIQ-CH2M Review Date	AGVIQ-CH2M Disposition	AGVIQ-CH2M Transmit Date	Contracting Officer Received	Contracting Officer Disposition	Contracting Officer Return	Contractor Return	Remarks
Instrumentati	nstrumentation and Process Control															
40 95 00	Product Data - Instrument and Process Controls	1.2														
40 95 00	Pressure Gauges	2.3.2.1	Calgon	AGVIQ-CH2M HILL		2	002 - 40 95 00 - 2.3.2.1	2/10/2012	2/14/2012	Approved as Noted	2/15/2012	2/15/2012	Received	2/15/2012	2/17/2012	
40 95 00	Differential Pressure Gauges	2.3.2.2	Calgon	AGVIQ-CH2M HILL		3	003 - 40 95 00 - 2.3.2.2	2/10/2012	2/14/2012	Approved	2/15/2012	2/15/2012	Received	2/15/2012	2/17/2012	
40 95 00	Flow Sensor Indicator	2.3.1	Calgon	Variation - Government		4	004 - 40 95 00 - 2.3.1	2/10/2012	2/14/2012	Approved	2/17/2012	2/17/2012	Approved	2/29/2012	2/29/2012	
40 95 00	Flow Meter	2.3.1	Phillip Ross	AGVIQ-CH2M HILL		16	016-409500-1	2/15/2012	2/20/2012	Approved	2/20/2012	2/20/2012	Receipt Acknowledged	2/23/2012	2/20/2012	
Liquid Phase	Granular Activated Carbon Adsorption System															
43 31 13	Product Data - Adsorber Vessel	1.4.A	Calgon	AGVIQ-CH2M HILL		6	006 - 43 31 13 - 1.4.A	2/14/2012	2/14/2012	Approved	2/15/2012	2/15/2012	Received	2/15/2012	2/17/2012	
43 31 13	Ball Valves	2.5.C	Calgon	AGVIQ-CH2M HILL		7	007 - 40 05 13 - 2.6.4	2/15/2012	2/17/2012	Approved	2/17/2012	2/21/012	Receipt Acknowledged	2/21/012	2/17/2012	
43 31 13	Butterfly Valves	2.5.B	Calgon	AGVIQ-CH2M HILL		8	008 - 40 05 13 - 2.6.6	2/15/2012	2/17/2012	Approved	2/17/2012	2/21/012	Receipt Acknowledged	2/21/012	2/17/2012	
43 31 13	System Flow Diagram	1.4.B														Information included in general arrangement and process flow drawings
43 31 13	System General Arrangement	1.4.C	Calgon	Variation - Government		27	027 - 43 31 13 1.4.C	2/17/2012	2/20/2012	Approved as Noted	2/20/2012	2/20/2012	Approved	2/23/2012	2/23/2012	
43 31 13	Process Flow and Instrument Diagrams	1.4.D	Calgon	AGVIQ-CH2M HILL		5	005 - 43 31 13 - 1.4.D	2/17/2012	2/20/2012	Approved	2/20/2012	2/20/2012	Receipt Acknowledged	2/23/2012	2/20/2012	
43 31 13	System Pressure Drop Information	1.4.E	Calgon	AGVIQ-CH2M HILL		28	028 43 31 13 1.4.E	2/17/2012	2/20/2012	Approved	2/20/2012	2/20/2012	Receipt Acknowledged	2/23/2012	2/20/2012	
43 31 13	GAC Specifications	1.4.F	Calgon	Variation - Government		14	014 - 43 31 13 - 1.4.F	2/16/2012	2/17/2012	Approved as Noted	2/17/2012	2/17/2012	Approved	2/23/2012	2/23/2012	MSDS Included
43 31 13	Manufacturer's Certificates	1.4.G	Calgon	AGVIQ-CH2M HILL												
43 31 13	Specifications - Process and Utility Piping	2.4	Calgon	AGVIQ-CH2M HILL		29	029 - 43 31 13 2.4	2/23/2012	2/23/2012	Approved	2/23/2012	2/23/2012	Receipt Acknowledged	2/23/2012	2/23/2012	
43 31 13	Specifications - Vessel Lining	1.4.H.1	Calgon	AGVIQ-CH2M HILL		12	012 - 43 31 13 - 1.4.H.1	2/16/2012	2/17/2012	Approved	2/17/2012	2/21/012	Receipt Acknowledged	2/21/012	2/17/2012	If done on site, MSDS needed and Confined Space Entry
43 31 13	Specifications - Vessel Painting	1.4.H.2	Calgon	AGVIQ-CH2M HILL		13	013 - 43 31 13 - 1.4.H.2	2/16/2012	2/17/2012	Approved	2/17/2012	2/21/012	Receipt Acknowledged	2/21/012	2/17/2012	MSDS Printed and Saved
43 31 13	System O & M Manual	1.4.1	Calgon	AGVIQ-CH2M HILL		54	054 - 43 31 13 - 1.4.I	5/11/2012	5/11/2012	Approved	5/11/2012	5/14/2012	Receipt Acknowledged	5/14/2012	N/A	
			-													



(ATTACH TO EACH SUBMITTAL)

<b>DATE: 03</b>	/8	/2012		
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					1							
То:		NAVFAC MI	DLA	NT	From:	Don Cor	nger, PE, AGVIÇ	-CH2M HII	L			
	Mr. C	Greg Pearman					(Contractor)					
	grego	ory.pearman@ma	rines.	usmc.mil		Don.Cor	nger@ch2m.com					
CC:	christ	topher.shukis@na	avy.m	il	CC:	Jim.Nico	tri@ch2m.com					
	Lora.	Fly@navy.mil				smatney	smatney@tikigaq.com					
						Amy.Wo	olff@ch2m.com					
SUBN	<b>AITTA</b>	L INFORMATIO	ON									
Subm	ittal N	0.:	035 (	033000-8 Soil	Density	7 Test						
	New Submittal						Resubmi	ttal				
Projec	Project: Interim Emergen Facility					head Treatr	nent Aqua-NY V	Vater Treatr	nent			
Projec	oject No.: N62470-08-D-100					Io.: WE23						
Specif	ficatior	Section No.:	03 30	00 0								
Date o	of Subr	nittal:	3/7/	<sup>'</sup> 2012								
			ı									
SUBN	<b>MITTA</b>	L TYPE:										
Sh	op Dra	nwing		Sample				ional				
☐ M	aterial	Data		Proposed	d Substi	tution	cution Other					
The fol	llowinį	g items are hereb	y subi	mitted:								
Numb	oer of	per of Description of Item Submitted				Spec. and	Drawing or Brochure	Contains to Cor				
Cop		(Type, Size, N				Para. No.	Number	No	Yes			
1		All Island Tes			l l	3 30 00,						
		Soil Density T	estin	g Results	3	5.2.2						

The following information about the submission is hereby provided:

#### **Soil Density Testing Results**

The attached soil density testing results show a passing grade (above 95%) for the compacted soil below the concrete slab. The tests were performed in accordance with ASTM D1157 per the specifications. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



# A G V I Q CH2M HILL Submittal Review Comments Checklist

	CHZIV		7):45						
PROJEC	CT DATA								
Project	Name:	Well	im Emergency head Treatment a-NY	Clien	t:		Naval Facilities Engineering Command, Mid-Atlantic		
Project 1	No.:		170-08-D-1006 No.: WE23	Projec	ct Location:		Seamans Neck Road, Levittown, New York		
Inspecti	on Date:	2/23	/2012	Inspe	ctor:	]	Don Conger, CH2M HILL		
Report	No:	035		Contr	actor:	4	AGVIQ-CH2M HILL		
	TTAL DE	TAILS	1						
Submitt	al No.:		035 033000-8 Soil Den	sity Tes	st				
Specific	ation Secti	on:	03 30 00		Reviewer	Name:	Don Conger, CH2M HILL		
Descrip	tion:		Process and Utility Pi	ping	Page:		03 30 00 - 15		
Submitt	al Type:		Shop Drawing	☐ S	ample				
			se and Resubmit required)		5. Not subj	nittal requiect to re	,		
SUBMI	TTAL LIS	T							
No.			Comment			Related Spec Paragraph/Drawing			
001	Compact specifica		est ASTM D 1557 passed	d per		03 30 00, 3.2.2			
		-		-					

#### ALL ISLAND TESTING ASSOCIATES, INC.

75B Pine Aire Drive Bay Shore, NY 11706 Phone (631) 273-5717 Fax (631) 273-2457

P Ross Industries Inc 200 Long Island Avenue Wyandanch, N.Y. 11798

Re: 670 Seaman's Neck Road, Levittown/Density Tests taken 3/6/12

INSPECTOR: DP Quick (8-4:30)

TEST#	MAX DENSITY	OPT MOISTURE	DRY DENSITY	% MOISTURE	% COMPACTION
1	135.4	7.9	130.4	5.4	96.3
2	135.4	7.9	130.8	5.9	96.6

LOCATION: Footing Grade

Westside Footing: 7' North of Southwest Corner
 Eastside Footing: 6' North of Southeast Corner

SIEVE <u>SIZE</u>	PERCENT PASSING
3/4	94.1
3/8	84.9
4	72.3
10	58.9
20	44.6
40	26.3
60	15.6
100	12.2
200	11.3 (Wash)
MAXIMUM DENSITY (#/ft³)	135.4
OPTIMUM MOISTURE (%)	7.9

- NOTES: 1) The <u>Density Tests</u> were taken in accordance with <u>ASTM D2167</u> (Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method).
  - The Proctor (Max Density/Optimum Moisture) was taken in accordance with <u>ASTM D1557</u> (Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort)

Respectfully Submitted, ALL ISLAND TESTING ISLAND TESTING Daniel Quick

Cc: Randy Grogan (RGrogan@tikigaq.com)



(ATTACH TO EACH SUBMITTAL)

Date: 03/14/2012	
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	-30						11L. <u>00/ 11/ 2012</u>				
To:	NAVFAC MI	IDLAN	NT	Froi	m:	Don Cong	ger, PE, AGVIQ	-CH2M HII	LL		
Mı	r. Greg Pearman						(Contractor	)			
gre	egory.pearman@ma	rines.ı	usmc.mil			Don.Con	ger@ch2m.com				
CC: chi	ristopher.shukis@na	avy.mi	il	CC:	:	Jim.Nicot	ri@ch2m.com				
Lo	ra.Fly@navy.mil					smatney@tikigaq.com					
						Amy.Wo	lff@ch2m.com				
•											
	TAL INFORMATION	ON									
Submittal		)33000-9 Soil	Dens	sity T	est						
	New Submittal						Resubmi	ttal			
Project: Interim Emergen Facility				cy W	'ellhe	ad Treatm	nent Aqua-NY V	Vater Treatr	nent		
Project No	Project No.: N62470-08-D-100				) No.:	: WE23					
Specificat	ion Section No.:	03 30	00								
Date of St	ıbmittal:	3/12	/2012								
		•									
SUBMIT	TAL TYPE:	<u> </u>									
Shop I	Drawing		Sample					ional			
Materi	ial Data		Proposed	d Sub	stitut	tion	Other				
The follow	ring items are hereb	y subn	nitted:								
Number o	of Description	of Iter	m Submitted		Sn	ec. and	Drawing or Brochure	Contains to Cor			
Copies	(Type, Size, N			.)		ra. No.	Number	No	Yes		
1	All Island Tes			-	03	30 00,		$\boxtimes$			
	Soil Density T	esting	g Results		3.2	.2					
The follow	ring information abo	out the	. cuhmiccion	ic ho	oroby	provided					

#### **Soil Density Testing Results**

The attached soil density testing results show a passing grade (above 95%) for the compacted soil below the concrete slab. The tests were performed in accordance with ASTM D1157 per the specifications. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



Project Name:  Interim Emergency Wellhead Treatment Aqua-NY  Project No.:  No.		0. 6	Japan in	11/45						
Wellhead Treatment Aqua-NY  Project No.:  N62470-08-D-1006 TO No.: WE23  Inspection Date:  Report No:  O36  Contractor:  Don Conger, CH2M HILL  SUBMITTAL DETAILS  Submittal No.:  Sepecification Section:  Process and Utility Piping Page:  O3 30 00 - 15  Submittal Type:  Submittal Type:  Approval:  Comment  Comment  Comment  Related Spec Paragraph/Drawing  O3 30 00, 3.2.2	PROJE	CT DATA								
TO No.: WE23  Inspection Date: 3/12/2012  Inspector: Don Conger, CH2M HILL  Report No: 036  Contractor: AGVIQ-CH2M HILL  SUBMITTAL DETAILS  Submittal No.: 036 033000-9 Soil Density Test  Specification Section: 03 30 00  Reviewer Name: Don Conger, CH2M HILL  Description: Process and Utility Piping Page: 03 30 00 - 15  Submittal Type: Shop Drawing Sample Information  Approval: Approval: Approved 2. Approved as noted 3. Partial Approval — Resubmit as Noted (resubmittal required)  4. Revise and Resubmit 5. Not subject to review  SUBMITTAL LIST  No. Comment Related Spec Paragraph/Drawing  001 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Project	Name:	Well	head Treatment	Client	t:		-		
Report No: 036 Contractor: AGVIQ-CH2M HILL  SUBMITTAL DETAILS  Submittal No.: 036 033000-9 Soil Density Test  Specification Section: 03 30 00 Reviewer Name: Don Conger, CH2M HILL  Description: Process and Utility Piping Page: 03 30 00 - 15  Submittal Type: Shop Drawing Sample Information  Approval: 1. Approved 2. Approved as noted 3. Partial Approval – Resubmit as Noted (resubmittal required)  4. Revise and Resubmit 5. Not subject to review  (resubmittal required)  SUBMITTAL LIST  No. Comment Related Spec Paragraph/Drawing  001 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Project	No.:			Projec	et Location:				
SUBMITTAL DETAILS Submittal No.: 036 033000-9 Soil Density Test Specification Section: 03 30 00 Reviewer Name: Don Conger, CH2M HILL Description: Process and Utility Piping Page: 03 30 00 - 15 Submittal Type: Shop Drawing Sample Information Approval: 1. Approved 2. Approved as noted 3. Partial Approval – Resubmit as Noted (resubmittal required) 4. Revise and Resubmit 5. Not subject to review (resubmittal required)  SUBMITTAL LIST No. Comment Related Spec Paragraph/Drawing 001 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Inspecti	ion Date:	3/12	2/2012	Inspe	ctor:	Г	Oon Conger, CH2M HILL		
Submittal No.: 036 033000-9 Soil Density Test  Specification Section: 03 30 00 Reviewer Name: Don Conger, CH2M HILL  Description: Process and Utility Piping Page: 03 30 00 - 15  Submittal Type: Shop Drawing Sample Information  Approval: 1. Approved 2. Approved as noted 3. Partial Approval − Resubmit as Noted (resubmittal required)  4. Revise and Resubmit 5. Not subject to review (resubmittal required)  SUBMITTAL LIST  No. Comment Related Spec Paragraph/Drawing  O01 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Report	No:	036		Contr	actor:	Α	AGVIQ-CH2M HILL		
Submittal No.: 036 033000-9 Soil Density Test  Specification Section: 03 30 00 Reviewer Name: Don Conger, CH2M HILL  Description: Process and Utility Piping Page: 03 30 00 - 15  Submittal Type: Shop Drawing Sample Information  Approval: 1. Approved 2. Approved as noted 3. Partial Approval — Resubmit as Noted (resubmittal required)  4. Revise and Resubmit 5. Not subject to review (resubmittal required)  SUBMITTAL LIST  No. Comment Related Spec Paragraph/Drawing  001 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2							•			
Specification Section:   03 30 00   Reviewer Name:   Don Conger, CH2M HILL	SUBMI	TTAL DE	TAILS	5						
Description: Process and Utility Piping Page: 03 30 00 - 15  Submittal Type: Shop Drawing Sample Information  Approval: 1. Approved 2. Approved as noted (resubmittal required)  4. Revise and Resubmit 5. Not subject to review (resubmittal required)  Cubmittal required  Submittal required  Comment Related Spec Paragraph/Drawing  Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Submit	tal No.:		036 033000-9 Soil De	nsity Tes	t				
Submittal Type: Shop Drawing Sample Information  Approval: 1. Approved 2. Approved as noted 3. Partial Approval – Resubmit as Noted (resubmittal required)  4. Revise and Resubmit 5. Not subject to review (resubmittal required)  SUBMITTAL LIST  No. Comment Related Spec Paragraph/Drawing  001 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Specific	ation Secti	ion:	03 30 00		Reviewer	Name:	Don Conger, CH2M HILL		
Approval: 1. Approved 2. Approved as noted 3. Partial Approval – Resubmit as Noted (resubmittal required)  4. Revise and Resubmit 5. Not subject to review (resubmittal required)  SUBMITTAL LIST  No. Comment Related Spec Paragraph/Drawing  001 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Descrip	tion:		Process and Utility I	Piping	Page:		03 30 00 - 15		
(resubmittal required)  4. Revise and Resubmit 5. Not subject to review (resubmittal required)  SUBMITTAL LIST  No. Comment Related Spec Paragraph/Drawing  OO1 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2	Submit	tal Type:		Shop Drawing	$\square$ S	☐ Sample ☐ Information				
No.CommentRelated Spec Paragraph/Drawing001Compaction Test ASTM D 1557 passed per03 30 00, 3.2.2	SURMI	(resul	omittal 1			5. Not subj	ect to rev	view		
001 Compaction Test ASTM D 1557 passed per 03 30 00, 3.2.2			· <u>•</u>	Comment			Relate	ed Snec Paragraph/Drawing		
	001				ed per					

## ALL ISLAND TESTING ASSOCIATES, INC.

75B Pine Aire Drive Bay Shore, NY 11706 Phone (631) 273-5717 Fax (631) 273-2457

P Ross Industries Inc. 200 Long Island Avenue Wyandanch, N.Y. 11798

Re: 670 Seaman's Neck Road, Levittown/Density Tests taken 3/12/12

INSPECTOR: E Hayden/DP Quick/C Japutra (8-4:30)

TEST # MAX DENSITY OPT MOISTURE DRY DEN	SITY % MOISTURE % COMPACTION
1     135.8     7.6     129.3       2     135.8     7.6     130.4       3     135.8     7.6     130.5       4     135.8     7.6     132.5	7.2 95.7 • 96.4

#### LOCATION:

- 1) 1' South of North Wall, 4' East of West Wall, 2' Below Top of Wall
- 2) 6' South of North Wall, 1' West of East Wall, 2' Below Top of Wall
- 3) 4' North of South Wall, 10' East of West Wall, 1' Below Top of Wall
- 4) Middle of Filter Pad, Subgrade

	SIEVE SIZE	PERCENT PASSING
	<sup>3</sup> / <sub>4</sub> 3/8	85.5 80.9
	4	72.2 60.9
	20	48.1
	40	28.6
	60	17.1
	100	13.1
2	200	11.9 (Wash)
MAXIMUM DENSITY (#/ft³)		135.8
OPTIMUM MOISTURE (%)		7.6

- NOTES: 1) The Density Tests were taken in accordance with ASTM D2167 (Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method).
  - 2) The Proctor (Max Density/Optimum Moisture) was taken in accordance with ASTM D1557 (Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort).

Respectfully Submitted, ALL ISLAND TESTING Waniel Juich

Cc: Randy Grogan (RGrogan@tikigag.com)



(ATTACH TO EACH SUBMITTAL)

D	00 /01	/2012	
DATE	: 03/21	7 2012	

To:		NAVFAC M	IDLA	NT	Fro	m:	Don Con	ger, PE, AGVIÇ	CH2M HII	LL
	Mr. C	Greg Pearman						(Contractor	.)	
	grego	ory.pearman@ma	arines.	.usmc.mil			Don.Con	ger@ch2m.com		
CC:	christ	topher.shukis@n	avy.m	nil	CC	<u>'</u> :	Jim.Nico	tri@ch2m.com		
		Fly@navy.mil	J				smatney	@tikigaq.com		
		J J					,	lff@ch2m.com		
							<i>y</i>			
SUBI	MITTA	L INFORMATI	ON							
Subm	nittal N	o.:	040	033000-10 Ca	oncre	te Fo	oter 7-Day	Breaks		
	New Submittal     New							Resubmi	ittal	
Proje	Project: Interim Emergent Facility				ncy W	/ellhe	ead Treatn	nent Aqua-NY I	Water Treatr	nent
Proje	ct No.:		N62	.470-08-D-100	)6, TC	O No	.: WE23			
Speci	fication	Section No.:	03 3	0 00						
Date	of Subr	nittal:	3/10	6/2012						
			1							
SUBI	MITTA	L TYPE:								
Sl	hop Dra	nwing		Sample					ional	
	Iaterial	Data		☐ Propose	d Sub	ostitu	tion	Other		
The fo	llowing	g items are hereb	y sub	mitted:				•		
Num	ber of	Description	of Ite	em Submitted		Sı	pec. and	Drawing or Brochure	Contains to Con	
	pies			Number, Etc			ara. No.	Number	No	Yes
1		All Island Tes	sting A	Associates -		03	30 00,			
		Concrete Foo	ter Te	esting and 7	-	1.3	3			

The following information about the submission is hereby provided:

Day Cylinder Breaks

#### **Concrete Footer 7-Day Breaks**

The attached concrete footer 7-day cylinder break testing results show that after 7 days, the concrete has cured to 88% of its design strength. In addition, the field concrete testing all passed per the specifications. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



PROJECT DATA			
Project Name:	Interim Emergency Wellhead Treatment Aqua-NY	Client:	Naval Facilities Engineering Command, Mid-Atlantic
Project No.:	N62470-08-D-1006 TO No.: WE23	Project Location:	Seamans Neck Road, Levittown, New York
	10 No.: WE23		Levittown, New Tork
Inspection Date:	3/16/2012	Inspector:	Don Conger, CH2M HILL
Report No:	040	Contractor:	AGVIQ-CH2M HILL

SUBMITTA	SUBMITTAL DETAILS							
Submittal N	o.:	040 033000-10 Concrete Foo	ter 7-Day Breaks					
Specification	n Section:	03 30 00	Reviewer Name:	Don Conger, CH2M HILL				
Description:		Concrete Footer 7-Day Breaks	Page:	03 30 00 - 5				
Submittal T	ype:	☐ Shop Drawing ☐ Sample ☐ Information						
Approval:	1. Appr 4. Revis	se and Resubmit	oted 3. Partial A  (resubmittal requi  5. Not subject to rev	,				

SUBM	SUBMITTAL LIST							
No.	Comment	Related Spec Paragraph/Drawing						
001	Test and Break results conform to the contract specification.	03 30 00, 1.3						

# ALL ISLAND TESTING ASSOC. INC.

# 75B Pine Aire Drive

# Bayshore NY 11706

NYC DOB Lab #84 Office 631.273.5717 Fax 631.273.2457

lient:	P Ros	s Industri	es	200 Lo	ng Isla	nd Ave	enue	Wyand	anch, NY 11	798	Date	Cast: March	h 8, 201	2
roject	: 670	Seamans	Neck	Road							Lab p	<b>/u:</b> 3/9/12		
ontra	ctor:										Conc	rete Suppli	ier: Cro	SS
lass C	oncret	te: 4500									Yards	s Inspected	<b>d:</b> 12.5	
cyls:	5													
	y													
URIN	G	INITIAL					MAX/N	IN TEMP			Plant I	Man:		
		FINAL									Time:			
IELD		LOCATIO	N				PROTE	CTION				<b>1an:</b> C Japu	utra 	
/EATHI	ER:										Time:			
												an: DM Quic		
											Direct	or: K Dietric	:h	
	T		2.11	T"	7 2/0//	1,///		GRADATIO	#16	#30	#50	#100	F.M	Moisture
assing	1.5"	1"	3/4"	1/2"	3/8"	1/4"	#4	#8	#10	#30	#30	#100	1.11	Ploistare
ne ourse	+			+		+-	-		_	·	1			1
einfo	rcing S	Steel Inspe	ction	:										
Cyl: 6x: Area:	I.D 12 28.27	Slum C-143		Air Cont C-23		Temp C-106		Lbs/ft³ C-138 C-173	Total Load (Lbs)		Days PSI C-39	28 Days PSI C-39		Type of Break*
А		6.0	$\top$	5.5		74°			112,000	396	51			
С														
D														
Е												7		
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												france	1	
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			+											

Respectfully Submitted,



(ATTACH TO EACH SUBMITTAL)

DATE: 03	/27	/2012	

llowing items are herel	by submitted:					
aterial Data	Propose	d Substit	ution	Other		
op Drawing	Sample				ional	
MITTAL TYPE:						
of Submittal:	3/22/2012					
fication Section No.:	03 30 00					
et No.:	N62470-08-D-100	)6, TO No	o.: WE23			
et:	Interim Emergen Facility	ıcy Wellh	ead Treatm	nent Aqua-NY V	Vater Treatr	nent
New Submittal			Resubmittal			
ittal No.:	044 033000-12 Cc	oncrete Pa	ad 7-Day B1	reaks		
MITTAL INFORMATI	ON					
			Amy.Wo	lff@ch2m.com		
Lora.Fly@navy.mil				9 1		
1	navy.mil	CC:	Jim.Nicot	ri@ch2m.com		
gregory.pearman@m	arines.usmc.mil		Don.Con	ger@ch2m.com		
Mr. Greg Pearman				(Contractor)	)	
NAVFAC M	IIDLANT	From:	Don Con	-		LL
í	Mr. Greg Pearman gregory.pearman@m christopher.shukis@r Lora.Fly@navy.mil  MITTAL INFORMATI ittal No.:  New Sub et: et No.: fication Section No.: of Submittal:  MITTAL TYPE: top Drawing	gregory.pearman@marines.usmc.mil christopher.shukis@navy.mil Lora.Fly@navy.mil  MITTAL INFORMATION ittal No.: 044 033000-12 Co  New Submittal et: Interim Emergent Facility et No.: N62470-08-D-100 fication Section No.: 03 30 00 of Submittal: 3/22/2012  MITTAL TYPE: top Drawing Sample	Mr. Greg Pearman gregory.pearman@marines.usmc.mil  christopher.shukis@navy.mil  Lora.Fly@navy.mil   MITTAL INFORMATION ittal No.:  New Submittal  ct:  Interim Emergency Wellh Facility  tt No.:  N62470-08-D-1006, TO No. ittal Submittal:  3/22/2012  MITTAL TYPE:  Interim Emergency Wellh Facility  Sication Section No.:  3/22/2012	Mr. Greg Pearman gregory.pearman@marines.usmc.mil  CC: Jim.Nicot Lora.Fly@navy.mil  Interim Emergency Wellhead Treatm Facility  The No.:  New Submittal  Interim Emergency Wellhead Treatm Facility  The No.:  New Submittal:  Sication Section No.:  O3 30 00  Of Submittal:  Sample	Mr. Greg Pearman gregory.pearman@marines.usmc.mil CC: Jim.Nicotri@ch2m.com smatney@tikigaq.com Amy.Wolff@ch2m.com Amy.Wolff@ch2m.com  MITTAL INFORMATION ittal No.: 044 033000-12 Concrete Pad 7-Day Breaks New Submittal □ Resubmi tt: Interim Emergency Wellhead Treatment Aqua-NY V Facility No.: N62470-08-D-1006, TO No.: WE23 ication Section No.: 03 30 00 of Submittal: 3/22/2012  MITTAL TYPE: op Drawing □ Sample □ Sample □ Information	Mr. Greg Pearman gregory.pearman@marines.usmc.mil  CC: Jim.Nicotri@ch2m.com smatney@tikigaq.com Amy.Wolff@ch2m.com  ITTAL INFORMATION ittal No.: 044 033000-12 Concrete Pad 7-Day Breaks New Submittal  Interim Emergency Wellhead Treatment Aqua-NY Water Treatment Facility It No.: N62470-08-D-1006, TO No.: WE23 Fication Section No.: 03 30 00 of Submittal: 3/22/2012  MITTAL TYPE:  Informational

Number of	Description of Item Submitted	Spec. and	Drawing or Brochure	Contains to Cor	
Copies	(Type, Size, Model Number, Etc.)	Para. No.	Number	No	Yes
1	All Island Testing Associates – Concrete Pad Testing and 7-Day Cylinder Breaks	03 30 00,			

The following information about the submission is hereby provided:

#### **Concrete Footer 7-Day Breaks**

The attached concrete pad 7-day cylinder break testing results show that after 7 days, the concrete has cured to 68% of its design strength. The field concrete testing passed per the specifications. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.

CONTRACTOR (Authorized Signature)

Page 1 of 1

WB-P06-006211-F1 Form Rev. 1: April-2011



PROJECT DATA			
Project Name:	Interim Emergency Wellhead Treatment Aqua-NY	Client:	Naval Facilities Engineering Command, Mid-Atlantic
Project No.:	N62470-08-D-1006 TO No.: WE23	Project Location:	Seamans Neck Road, Levittown, New York
Inspection Date:	3/22/2012	Inspector:	Don Conger, CH2M HILL
Report No:	044	Contractor:	AGVIQ-CH2M HILL

SUBMITTA	SUBMITTAL DETAILS								
Submittal N	o.:	044 033000-12 Concrete	Pad 7	7-Day Breaks					
Specification	Section:	03 30 00		Reviewer Name:	Don Conger, CH2M HILL				
Description:		Concrete Pad 7-Day Bre	rete Pad 7-Day Breaks Page:		03 30 00 - 5				
Submittal Ty	ype:	Shop Drawing	$\square$ S	ample [	✓ Information				
Approval:	1. Appr	oved 🛛 2. Approved	as no	ted $\square$ 3. Partial $A_1$	pproval – Resubmit as Noted				
				(resubmittal requir	red)				
	4. Revis	se and Resubmit		5. Not subject to rev	riew				
	(resubmittal r	required)							

SUBMI	SUBMITTAL LIST								
No.	Comment	Related Spec Paragraph/Drawing							
001	Test results conform to the contract specification.  Break results indicate that there is a possibility that the cylinders will not reach supplied strength.	03 30 00, 1.3							
002	Provide 14 and 28 day break results	03 30 00, 1.3							

# ALL ISLAND TESTING ASSOC. INC.

## 75B Pine Aire Drive

# Bayshore NY 11706

NYC DOB Lab #84 Office 631.273.5717 Fax 631.273.2457

Client: P Ross Industries	200 Long Island Avenue	Wyandanch, NY 11798	Date Cast: March 14, 2012
Project: 670 Seamans Neck	Road		<b>Lab p/u:</b> 3/15/12
Contractor:			Concrete Supplier: Cross
Class Concrete: 4500			Yards Inspected: 19
# cyls: 5			

CURING	INITIAL	MAX/MIN TEMP	Plant Man:
	FINAL		Time:
FIELD	LOCATION	PROTECTION	Field Man: J Filiberto
WEATHER:			Time: 8-4:30
			Lab Man: DM Quick
			Director: K Dietrich

	GRADATION													
Passing	1.5"	1"	3/4"	1/2"	3/8"	1/4"	#4	#8	#16	#30	#50	#100	F.M	Moisture
1 4351119		-	-		1			1						
Fine											-	+		+
Course														

Location of Concrete Placement: Generator Pad

NOTE: \* - Marginal; There is a Possibility that the Cylinders will Not Reach Supplied Strength.

Reinforcing Steel Inspection:

Slump C-143	Air Content C-231	Temp C-1064	Lbs/ft³ C-138 C-173	Total Load (Lbs)	7 Days PSI C-39	28 Days PSI C-39	Type of Break*
5.5	6.0	77°		86,500	3059*		
						3	
						9	
				-	-	0	
						0	
					-		
				-	-	-	
				-	+	-	
					-	-	
	C-143	C-143 C-231	C-143 C-231 C-1064	C-143 C-231 C-1064 C-138 C-173	C-143 C-231 C-1064 C-138 Load (Lbs)	C-143 C-231 C-1064 C-138 Load PSI C-39	C-143 C-231 C-1064 C-138 Load (Lbs) C-39 C-39  5.5 6.0 77° 86,500 3059*

Respectfully Submitted,

.C



(ATTACH TO EACH SUBMITTAL)

DATE: 03/2	7/2012
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		36					<u> </u>					
То:		NAVFAC MI	DLA	NT	From:	Don Con	ger, PE, AGVIÇ	)-CH2M HII	L			
	Mr. C	Greg Pearman					(Contractor	2)				
	grego	ory.pearman@ma	rines	.usmc.mil		Don.Con	Don.Conger@ch2m.com					
CC:	christ	topher.shukis@na	avy.m	nil	CC:	Jim.Nico	tri@ch2m.com					
	Lora.	Fly@navy.mil				smatney	@tikigaq.com					
						Amy.Wo	lff@ch2m.com					
						1						
		L INFORMATIO	ON									
Subm	ittal N	o.:	045	033000-13 Co	ncrete Fo	ooter 14-Da	ıy Breaks					
New Submittal							Resubmi	ttal				
Projec	et:		Inte Faci	0	cy Wellh	ead Treatn	nent Aqua-NY V	Vater Treatr	nent			
Projec	t No.:		N62	2470-08-D-100	6, TO No	o.: WE23	<u></u>					
Specif	fication	Section No.:	03 3	0 00								
Date o	of Subr	nittal:	3/22	2/2012								
SUBN	ИІТТА	L TYPE:										
Sh	op Dra	nwing		Sample				ional				
M	aterial	Data		Proposed	l Substit	ıtion	Other					
The fol	llowing	g items are hereby	y sub	mitted:								
							Drawing or	Contains '				
Numb				em Submitted		pec. and	Brochure	to Cor				
Cop	oies			Number, Etc.	,	Para. No.	Number	No	Yes			
1		All Island Tes	_			30 00,						
		Concrete Foot	er 14	-Day Cylind	ler 1.	3						

The following information about the submission is hereby provided:

#### **Concrete Footer 7-Day Breaks**

The attached concrete footer 14-day cylinder break testing results show that after 14 days, the concrete has cured to 100% of its design strength. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



PROJECT DATA										
Project Name:	Interim Emergency Wellhead Treatment Aqua-NY	Client:	Naval Facilities Engineering Command, Mid-Atlantic							
Project No.:	N62470-08-D-1006 TO No.: WE23	Project Location:	Seamans Neck Road, Levittown, New York							
Inspection Date:	3/22/2012	Inspector:	Don Conger, CH2M HILL							
Report No:	045	Contractor:	AGVIQ-CH2M HILL							

SUBMITTAL I	SUBMITTAL DETAILS										
Submittal No.:		045 033000-13 Concrete Footer 14-Day Breaks									
Specification Se	ection:	03 30 00	Reviewer Name:	Don Conger, CH2M HILL							
Description:		Concrete Footer 14-Day Breaks	Page:	03 30 00 - 5							
Submittal Type	e:	Shop Drawing S									
	(resubmittal required)  4. Revise and Resubmit  5. Not subject to review										
(re	esubmittal r	equired)									

SUBMI	SUBMITTAL LIST										
No.	Comment	Related Spec Paragraph/Drawing									
001	Test results conform to the contract specification.	03 30 00, 1.3									
002	Provide 28 day break results	03 30 00, 1.3									

# ALL ISLAND TESTING ASSOC. INC.

# 75B Pine Aire Drive

# Bayshore NY 11706

NYC DOB Lab #84 Office 631.273.5717 Fax 631.273.2457

Client:	P Ross	s Industr	ries	200 Lo	ong Isla	nd Av	enue	e V	Vyandan	ch, NY 117	98	Date	Cast: Marc	ch 8, 2012	2
Project	670	Seamans	Neck	Road								Lab p	<b>/u:</b> 3/9/1	2	
Contrac	tor:											Conci	rete Supp	lier: Cros	SS
Class Co	oncret	<b>e:</b> 4500										Yards	Inspecte	ed: 12.5	
# cyls:	5														
CURING	-	INITIAL					MAX	X/MIN T	EMP			Plant N	lan:		
		FINAL										Time:			
TELD		LOCATIO	ON				PRC	TECTIO	N			Field M	lan: C Jap	utra	
NEATHE	R:											Time: 8	3-4:30		
												Lab Man: DM Quick			
												Directo	r: K Dietri	ch	
								GRAE	DATION				·	·	
assing	1.5"	1"	3/4″	1/2"	3/8"	1/4"	+	#4	#8	#16	#30	#50	#100	F.M	Moisture
ine		-	-		-	+	+			-	-				
Course	<u></u>		L		L				L		L			L	
.ocatio	of Co	ncrete P	laceme	ent: Wall	S										
Reinford	cing St	teel Insp	ection:												
Cyl I 6x1 Area 2	2	Slum C-14		Air Cont C-231					138	Total Load (Lbs)	F	Days PSI -39	14 Days PSI C-39		28 Days PSI C-39
A		6.0		5.5		74°				112,000	396:	1			
С										144,000			5093		
D															<u>}</u>
E		T													الم
															0
															IL.

Respectfully Submitted,

~



(ATTACH TO EACH SUBMITTAL)

DATE: 03,	/30	/2012
-----------	-----	-------

То:		NAVFAC M	IDLA:	NT	From:	Don Con	iger, PE, AGVIÇ	2-CH2M HII	LL			
	Mr. C	Greg Pearman					(Contractor	·)				
	grego	ory.pearman@ma	arines	.usmc.mil		Don.Con	ger@ch2m.com					
CC:	christ	opher.shukis@n	avy.n	nil	CC:	Jim.Nico	tri@ch2m.com					
	Lora.	Fly@navy.mil				smatney	@tikigaq.com					
						Amy.Wo	olff@ch2m.com					
					•							
SUBN	MITTA	L INFORMATION	ON									
Subm	ittal N	o.:	048	033000-14 To	p Slab 1	4-day Break	KS .					
New Submittal							Resubmittal					
Project: Interim Emergen Facility					cy Well	head Treatn	nent Aqua-NY V	Vater Treatr	nent			
Projec	ct No.:		N62	470-08-D-100	)6, TO N	o.: WE23						
Speci	fication	Section No.:	03 3	0 00								
Date	of Subr	nittal:	3/29	9/2012								
SUBN	MITTA	L TYPE:										
Sł	nop Dra	wing		Sample			✓ Informat	ional				
M	aterial	Data		Propose	d Substi	tution	Other					
The fo	llowing	g items are hereb	y sub	mitted:								
	Number of Description of Item Submitted Copies (Type, Size, Model Number, Etc					Spec. and Para. No.	Drawing or Brochure Number	Contains Variation to Contract No Yes				
1	<b>P10</b> 5	All Island Tes			,	3 30 00,	Tuniber					
		Concrete Ton	_			3						

Number of	Description of Item Submitted	Spec. and	Drawing or Brochure	Contains to Cor	
Copies	(Type, Size, Model Number, Etc.)	Para. No.	Number	No	Yes
1	All Island Testing Associates – Concrete Top Slab 14-Day	03 30 00, 1.3			
	Cylinder Breaks				

The following information about the submission is hereby provided:

#### **Concrete Top Slab 7-Day Breaks**

The attached concrete top slab 14-day cylinder break testing results show that after 14 days, the concrete has cured to 85% of its design strength. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



		30~									
PROJE	CT DATA										
Project	Name:	Well	im Emergency head Treatment a-NY	Client	:		Naval Facilities Engineering Command, Mid-Atlantic				
Project	No.:		170-08-D-1006 No.: WE23	Projec	t Location:		Seamans Neck Road, Levittown, New York				
Inspecti	ion Date:	3/30	/2012	Inspector:			Don Conger, CH2M HILL				
Report	No:	048		Contr	AGVIQ-CH2M HILL						
SUBMI	SUBMITTAL DETAILS										
Submitt	Submittal No.: 048 033000-14 Top Slab 14-day Breaks										
Specific	ation Secti	on:	03 30 00		Reviewer	Name:	Don Conger, CH2M HILL				
Descrip	tion:		Top Slab 14-Day Breal	nks Page:			03 30 00 - 5				
Submitt	tal Type:		Shop Drawing	S	ample						
Approv	$\Box 4$		roved \(\sigma\) 2. Approve se and Resubmit required)	ed as noted							
SUBMI	TTAL LIS	Т									
No.			Comment			Rela	ted Spec Paragraph/Drawing				
001	Test resu	lts cor	nform to the contract sp	ecificati	ion.	03 30 0	00, 1.3				
002	Provide 2	28 day	break results			03 30 0	00, 1.3				

# ALL ISLAND TESTING ASSOC. INC.

# 75B Pine Aire Drive

# Bayshore NY 11706

NYC DOB Lab #84 Office 631.273.5717 Fax 631.273.2457

Client:	P Ros	ss Indust	ries	200 L	ong Isla	nd A	venue	Wyanda	nch, NY 11	1798	Date	Cast: Ma	rch 14, 20	012
Project	: 670	Seaman	s Neck	Road								<b>o/u:</b> 3/15		
Contrac	ctor:										_	rete Sup		000
Class C	oncre	te: 4500												J55
# cyls:	5										Taru	s Inspect	.ea: 19	
CURING	3	INITIAL					MAX/MIN	TEMP			Plant I	Man:		
		FINAL									Time:			
FIELD		LOCATIO	ON				PROTECTI	ON			-	lan: J Fili	berto	
WEATHE	R:										Time:	8-4:30		
											Lab Ma	n: DM Qu	ıick	
											Directo	r: K Dietr	ich	
							GRA	DATION						
Passing Fine	1.5"	1"	3/4"	1/2"	3/8"	1/4"	#4	#8	#16	#30	#50	#100	F.M	Moisture
Course			1		<del>                                     </del>		_	+	-	-	-		-	-
Location	of Co	oncrete P	laceme	ent: Gen	erator Pa	d								
NOTES: 1	) * - M 2) The	larginal; T 14 Dav Br	here is a	a Possibil	lity that t	he Cy	linders will N	lot Reach	Supplied St	rength.	. Ti C			

Reinforcing Steel Inspection:

Cyl I.D 6x12 Area 28.27	Slump C-143	Air Content C-231	Temp C-1064	Lbs/ft <sup>3</sup> C-138 C-173	Total Load (Lbs)	7 Days PSI C-39	14 Days PSI C-39	28 Days PSI C-39
А	5.5	6.0	77°		86,500	3059*		
С					108,000		3820	
D								~
Е								5
								3
								O IL
								0

Respectfully Submitted,

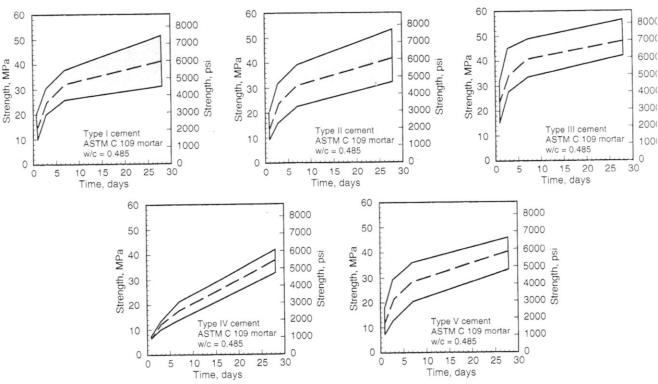


Fig. 2-43. Strength development of portland cement mortar cubes from combined statistics. The dashed line represents mean value and the shaded area the range of values (adapted from Gebhardt 1995).

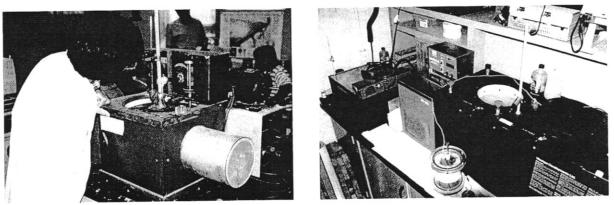


Fig. 2-44. Heat of hydration can be determined by (left) ASTM C 186 or by (right) a conduction calorimeter. (IMG12 IMG12448)

Table 2-8. ASTM C 186 Heat of Hydration for Selected Portland Cements from the 1990s, kJ/kg\*

	Type I o	Type I cement				Type II moderate heat cement	Type III	cement	Type IV	Type
	7 day	28 day	7 day	28 day	7 day	7 day	28 day	7 day	28 day	7 da
No. of samples	15	7	16	7	4	2	2	3	1	6
Average Maximum Minimum	349 372 320	400 444 377	344 371 308	398 424 372	263 283 227	370 372 368	406 414 397	233 251 208	274 — —	310 341 257
% of Type I (7 day)	100		99		75	106		67		89

<sup>\*</sup>This table is based on very limited data.

 $<sup>1 \</sup>text{ cal/g} = 4.184 \text{ kJ/kg}$ . PCA (1997).



(ATTACH TO EACH SUBMITTAL)

DATE: 05/11/20	12
----------------	----

To: NAVFAC MI	IDLANT	From:	Don Con	ger, PE, AGVIÇ	-CH2M HII	LL					
Mr. Greg Pearman				(Contractor	)						
gregory.pearman@ma	rines.usmc.mil		Don.Con	ger@ch2m.com							
CC: christopher.shukis@na	avy.mil	CC:	Jim.Nicot	Jim.Nicotri@ch2m.com							
Lora.Fly@navy.mil			smatney@	smatney@tikigaq.com							
			Amy.Wo	lff@ch2m.com							
SUBMITTAL INFORMATION	1										
Submittal No.:	051 033000-15 Co	ncrete l	Footer 28-Da	<del>-</del>							
New Subn	nittal			Resubmi	ttal						
Project:	Interim Emergen Facility	cy Well	head Treatm	nent Aqua-NY V	Vater Treatr	nent					
Project No.:	N62470-08-D-100	)6, TO N	No.: WE23								
Specification Section No.:	03 30 00										
Date of Submittal:	5/11/2012										
SUBMITTAL TYPE:											
Shop Drawing	Sample				ional						
☐ Material Data	Propose	d Substi	itution	Other							
The following items are hereb	y submitted:										
Number of Description	of Item Submitted		Spec. and	Drawing or Brochure	Contains to Cor						
	Model Number, Etc		Para. No.	Number	No	Yes					
1 All Island Tes	ting Associates -	- (	03 30 00,		$\boxtimes$						
	er 28-Day Cylind	der 1	1.3								
Breaks											
The following information abo	out the submissior	ı is here	by provided	•							
Concrete Footer 28-Day Break	ks			_							

The attached concrete footer 28-day cylinder break testing results show that after 28 days, the concrete has cured to 100% of its design strength. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



PROJEC	CT DATA						
Project 1	Name:	Well	rim Emergency head Treatment a-NY	Client	t:		Naval Facilities Engineering Command, Mid-Atlantic
Project 1	No.:		470-08-D-1006 No.: WE23	Projec	t Location:		eamans Neck Road, evittown, New York
Inspecti	on Date:	5/11	/2012	Inspector: Don C			Oon Conger, CH2M HILL
Report 1	No:	051		Contr	actor:	A	AGVIQ-CH2M HILL
	TTAL DE	TAILS	l				
Submitt			051 033000-15 Concre	te Foote			
Specific	ation Secti	on:	03 30 00		Reviewer	Name:	Don Conger, CH2M HILL
Descrip	tion:		Footer 28-Day Breaks		Page:		03 30 00 - 5
Submitt	al Type:		Shop Drawing	S	ample		
SURMI		omittal r	se and Resubmit required)		(resubr	ject to re	, ,
No.			Comment			Relat	ed Spec Paragraph/Drawing
001	Test resu	ılts cor	nform to the contract sp	ecificat	ion.	03 30 0	
			1				

# ALL ISLAND TESTING ASSOC. INC.

75B Pine Aire Drive

Bayshore NY 11706

NYC DOB Lab #84 Office 631.273.5717 Fax 631.273.2457

Client: P Ross Industries	200 Long Island Avenue	Wyandanch, NY 11798	Date Cast: March 8, 2012	
Project: 670 Seamans Neck	Road		<b>Lab p/u:</b> 3/9/12	
Contractor:			Concrete Supplier: Cross	
Class Concrete: 4500			Yards Inspected: 12.5	
# cyls: 5				

CURING	I	NITIAL				P	MAX/MIN	TEMP			Plant Man:			
	F	INAL									Time:			
FIELD	L	LOCATION				PROTECTION PROTECTION								
WEATHER:											Time: 8-4:30			
											Lab Man: DM Quick			
											Director: K Dietrich			
							GRA	DATION						
D		4.00	24.00					1						

Passing	1.5"	1"	3/4"	1/2"	3/8"	1/4"	#4	#8	#16	#30	#50	#100	F.M	Moisture
Fine														
Course														

Location of Concrete Placement: Walls

#### **Reinforcing Steel Inspection:**

Cyl I.D 6x12 Area 28.27	Slump C-143	Air Content C-231	Temp C-1064	Lbs/ft <sup>3</sup> C-138 C-173	Total Load (Lbs)	7 Days PSI C-39	14 Days PSI C-39	28 Days PSI C-39
А	6.0	5.5	74°		112,000	3961		
С					144,000		5093	
D					153,817			5441
E					152,149			5382

Respectfully Submitted,

C.C



(ATTACH TO EACH SUBMITTAL)

DATE: 05/11/2012	
------------------	--

To:		NAVFAC MIDLANT			om:	Don Con	ger, PE, AGVIQ	-CH2M HII	LL
	Mr. C	Greg Pearman					(Contractor	)	
	grego	ory.pearman@ma	rines.usmc.mil			Don.Con	ger@ch2m.com		
CC:	christ	opher.shukis@na	avy.mil	CC	<u>;</u> :	Jim.Nicot	tri@ch2m.com		
	Lora.	Fly@navy.mil				smatney@	tikigaq.com		
						Amy.Wo	lff@ch2m.com		
						•			
SUBN	ЛІТТА	L INFORMATIO	ON						
Subm	ittal No	o.:	052 033000-16 Co	ncre	ete Pa	d 28-Day I	Breaks		
		New Subn	nittal				Resubmi	ttal	
Projec	et:		Interim Emergen Facility	cy V	Vellhe	ead Treatm	nent Aqua-NY V	Vater Treatr	nent
Projec	t No.:		N62470-08-D-100	6, T	O No	.: WE23			
Specif	fication	Section No.:	03 30 00						
Date o	of Subr	nittal:	5/11/2012						
			1						
SUBN	<b>MITTA</b>	L TYPE:	1						
Sh	op Dra	wing	Sample					ional	
☐ M	aterial	Data	☐ Proposed	d Su	bstitu	tion	Other		
The fol	The following items are hereby submitted:								
Number of Description of Item Submitted				Ç,	oec. and	Drawing or Brochure	Contains to Con		
Cop			Model Number, Etc	.)		ara. No.	Number	No	Yes
1		All Island Tes	ting Associates –	_	03	30 00,		$\boxtimes$	

The following information about the submission is hereby provided:

Concrete Pad 28-Day Cylinder

#### **Concrete Pad 28-Day Breaks**

**Breaks** 

The attached concrete pad 28-day cylinder break testing results show that after 28 days, the concrete has cured to 100% of its design strength. The submittal is hereby submitted to the Government for your information, and approval is not required.

1.3

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



36						
ct Name: Interim Emergency C. Wellhead Treatment Aqua-NY		Client	Client:		Naval Facilities Engineering Command, Mid-Atlantic	
		Projec	t Location:		eamans Neck Road, evittown, New York	
5/11	./2012	Inspec	ctor:	D	on Conger, CH2M HILL	
052		Contr	actor:	A	GVIQ-CH2M HILL	
TAILS	3					
	052 033000-16 Concret	te Pad 2	8-Day Brea	ks	<del>,</del>	
ion:	03 30 00		Reviewer	Name:	Don Conger, CH2M HILL	
	Pad 28-Day Breaks		Page:		03 30 00 - 5	
	Shop Drawing		ample			
bmittal 1			5. Not subj	ect to rev	riew	
71	Comment			Relate	ed Spec Paragraph/Drawing	
ılts coı		ecificati	on	03 30 00, 1.3		
arto cor	norm to the contract op	centeun	011.	00 00 00	7 1.0	
	Well Aqu N624 TO N 5/11 052 ETAILS ion:	Interim Emergency Wellhead Treatment Aqua-NY N62470-08-D-1006 TO No.: WE23 5/11/2012 052  CTAILS  052 033000-16 Concretion: 03 30 00 Pad 28-Day Breaks Shop Drawing 1. Approved 2. Approve 4. Revise and Resubmit bmittal required)	Interim Emergency Wellhead Treatment Aqua-NY  N62470-08-D-1006 TO No.: WE23  5/11/2012  Inspect 052  Contra  CTAILS  052 033000-16 Concrete Pad 2 cion: 03 30 00 Pad 28-Day Breaks Shop Drawing Sa  1. Approved 2. Approved as not should be	Interim Emergency Wellhead Treatment Aqua-NY  N62470-08-D-1006 TO No.: WE23  5/11/2012	Interim Emergency Wellhead Treatment Aqua-NY  N62470-08-D-1006 TO No.: WE23  5/11/2012  Inspector: D52  Contractor:  A  STAILS  052 033000-16 Concrete Pad 28-Day Breaks ion: 03 30 00  Reviewer Name: Pad 28-Day Breaks Page:  Shop Drawing Sample  A (resubmittal required)  Revise and Resubmit D5. Not subject to revibinitial required)  ST  Comment  Relate	

# ALL ISLAND TESTING ASSOC. INC. 75B Pine Aire Drive Bayshore NY 11706

NYC DOB Lab #84 Office 631.273.5717 Fax 631.273.2457

Client: P Ross Industries	200 Long Island Avenue	Wyandanch, NY 11798	Date Cast: March 14, 2012
Project: 670 Seamans Neck Road			<b>Lab p/u:</b> 3/15/12
Contractor:			Concrete Supplier: Cross
Class Concrete: 4500			Yards Inspected: 19
# cyls: 5			
# Cyls. 5			

CURING	INITIAL	MAX/MIN TEMP	Plant Man:
CONZING	FINAL		Time:
FIELD	LOCATION	PROTECTION	Field Man: J Filiberto
WEATHER:			Time: 8-4:30
WEATHER			Lab Man: DM Quick
			Director: K Dietrich
		GRADATION	

#### Moisture #100 F.M #50 #16 #30 #8 1/2" 3/8" 1/4" #4 3/4" 1.5" 1" Passing Fine Course

Location of Concrete Placement: Generator Pad

NOTES: 1) \* - Marginal; There is a Possibility that the Cylinders will Not Reach Supplied Strength.

2) The 14 Day Break indicates that the Cylinders will Reach Supplied Strength.

#### Reinforcing Steel Inspection:

Cyl I.D 6x12 Area 28.27	Slump C-143	Air Content C-231	Temp C-1064	Lbs/ft <sup>3</sup> C-138 C-173	Total Load (Lbs)	7 Days PSI C-39	14 Days PSI C-39	28 Days PSI C-39
Α	5.5	6.0	77°		86,500	3059*		
С					108,000		3820	
D					127,470			4509
E					127,650			4515
F					127,200			4499
							Dagmostfulls	0.1 111

Respectfully Submitted,

C.C



(ATTACH TO EACH SUBMITTAL)

DATE: 05/11,	/2012
--------------	-------

To:		NAVFAC M	IDLANT	From:	Don Cong	ger, PE, AGVIÇ	2-CH2M HILL	
	Mr. C	Greg Pearman				(Contractor	·)	
	grego	ory.pearman@ma	arines.usmc.mil		Don.Cong	ger@ch2m.com		
CC:	christ	opher.shukis@n	avy.mil	CC:	Jim.Nicot	ri@ch2m.com		
	Lora.	Fly@navy.mil			smatney@	tikigaq.com		
					Amy.Wol	ff@ch2m.com		
SUBN	MITTA	L INFORMATION	ON					
Subm	ittal No	O.:	2012-05-11 055 33	31100-3 L	-3 Lab Testing Results and Lab Certification			
New Submittal					Resubmittal			
Projec	ct:		Interim Emergen Facility	cy Wellh	y Wellhead Treatment Aqua-NY Water Treatment			
Projec	et No.:		N62470-08-D-100	6, TO No	o.: WE23			
Specif	fication	Section No.:	33 11 00					
Date o	of Subr	nittal:	5/11/2012					
			•					
SUBN	MITTA	L TYPE:				T		
Sh	op Dra	wing	Sample				ional	
☐ Material Data ☐ Proposed			d Substit	ution	ution Other			
The fol	llowing	g items are hereb	y submitted:					
Number of Description of Item Submitted				S	Spec. and	Drawing or Brochure	Contains Variation to Contract	

Number of	Description of Item Submitted	Spec. and	Drawing or Brochure	Contains to Cor	
Copies	(Type, Size, Model Number, Etc.)	Para. No.	Number	No	Yes
1	EcoTest Laboratories Inc. Lab Certification and GAC Pipe and System Testing Results	33 11 00, 1.4			

The following information about the submission is hereby provided:

#### **Lab Testing Results**

The attached laboratory analysis testing results show that the system has been properly disinfected, and it is meeting the performance requirements of the specifications. EcoTest Laboratories is a certified lab in the State of New York. The submittal is hereby submitted to the Government for your information, and approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.



	_	200						
PROJE	CT DATA	,		T				
Project ?	t Name: Interim Emergency Wellhead Treatment Aqua-NY		Client:			Naval Facilities Engineering Command, Mid-Atlantic		
Project ?	No.:		470-08-D-1006 No.: WE23	Projec	et Location:		Seamans Neck Road, Levittown, New York	
Inspecti	on Date:	5/11	/2012	Inspe	ctor:	I	Oon Conger, CH2M HILL	
Report 1	No:	055		Contr	actor:	A	AGVIQ-CH2M HILL	
SUBMI	TTAL DE	TAILS	3					
Submitt	al No.:		2012-05-11 055 331100	-3 Lab	Testing Res	ults and	Lab Certification	
Specific	ation Secti	on:	33 11 00		Reviewer	Name:	Don Conger, CH2M HILL	
Descrip	tion:		Lab Testing Results		Page:		33 11 00 - 2	
Submitt	al Type:		Shop Drawing	□s	ample			
Approv	$\Box 4$	. Revis	coved 2. Approve se and Resubmit required)			nittal requ	,	
SUBMI	TTAL LIS	т						
No.			Comment			Relat	ed Spec Paragraph/Drawing	
001	Test resu	ılts me	et all specification requ	iremen	ts.	33 11 00 - 1.4		
_			1					
_								
					t			



Expires 12:01 AM April 01, 2013 Issued April 1, 2012

#### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

D. W. Methylcarbamate Pesticides		Drinking Water Bacteriology		
3-Hydroxy Carbofuran	EPA 531.1	Standard Plate Count	SimPlate	
Aldicarb	EPA 531.1		SM 18-21 9215B	
Aldicarb Sulfone	EPA 531.1	Drinking Water Chlorinated Acids		
Aldicarb Sulfoxide	EPA 531.1	2,4,5-TP (Silvex)	EPA 515.1	
Carbaryl	EPA 531.1	2,4-D	EPA 515.1	
Carbofuran	EPA 531.1	Dalapon	EPA 515.1	
Methomyl	EPA 531.1	Dicamba	EPA 515.1	
Oxamyl	EPA 531.1	Dinoseb	EPA 515.1	
Disinfection By-products		Pentachlorophenol	EPA 515.1	
Bromochloroacetic acid	EPA 552.2	Picloram	EPA 515.1	
	SM 19-21 6251B (94)	Drinking Water Metals I		
Dibromoacetic acid	EPA 552.2	Arsenic, Total	EPA 200.5	
	SM 19-21 6251B (94)	Barium, Total	EPA 200.5	
Dichloroacetic acid	EPA 552.2	Dallum, Total	EPA 200.5 Rev. 4.4	
	SM 19-21 6251B (94)	Cadmium, Total	EPA 200.7 Rev. 4.4	
Monobromoacetic acid	EPA 552.2	Cadmum, Total	EPA 200.7 Rev. 4.4	
	SM 19-21 6251B (94)	Chromium, Total	EPA 200.7 Rev. 4.4	
Monochloroacetic acid	EPA 552.2	Chlomium, rotal	EPA 200.7 Rev. 4.4	
	SM 19-21 6251B (94)	Copper, Total	EPA 200.7 Rev. 4.4 EPA 200.5	
Trichloroacetic acid	EPA 552.2	Copper, Total	EPA 200.7 Rev. 4.4	
	SM 19-21 6251B (94)	Iron, Total	EPA 200.7 Rev. 4.4	
Drinking Water Bacteriology		iion, rotai	EPA 200.7 Rev. 4.4	
Coliform, Total / E. coli (Qualitative)	SM 18-21 9221B(99)/40CFR141.21(F)6i	Lead, Total	EPA 200.7 Rev. 4.4	
Comorni, Total / E. Con (Quantative)	SM 18-21 9221D/40 CFR 141.21(F)6i	Manganese, Total	EPA 200.5	
	SM 18-21 9223B (97) (Colilert)	manganese, rotal	EPA 200.5 EPA 200.7 Rev. 4.4	
	OW 10-21 92200 (91) (Collielt)		EFA 200.7 Nev. 4.4	

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Expires 12:01 AM April 01, 2013 Issued April 1, 2012

#### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER

All approved analytes are listed below:

Drinking Water Metals I		Drinking Water Miscellaneous	
Mercury, Total	EPA 245.1 Rev. 3.0	Benzo(a)pyrene	EPA 525.2
Selenium, Total	EPA 200.5	Bis(2-ethylhexyl) phthalate	EPA 525.2
Silver, Total	EPA 200.5	Di (2-ethylhexyl) adipate	EPA 525.2
	EPA 200.7 Rev. 4.4	Glyphosate	EPA 547
Zinc, Total	EPA 200.5	Hexachlorobenzene	EPA 508
	EPA 200.7 Rev. 4.4	Hexachlorocyclopentadiene	EPA 525.2
Drinking Water Metals II		Odor	EPA 140.1
Aluminum, Total	EPA 200.5	Drinking Water Non-Metals	
	EPA 200.7 Rev. 4.4	Alkalinity	SM 18-21 2320B (97)
Antimony, Total	EPA 200.5	Calcium Hardness	EPA 200.7 Rev. 4.4
Beryllium, Total	EPA 200.5	Chloride	SM 18-21 4500-CI- B (97)
	EPA 200.7 Rev. 4.4	Color	SM 18-21 2120B (01)
Molybdenum, Total	EPA 200.7 Rev. 4.4	Corrosivity	SM 18-19 2330
Nickel, Total	EPA 200.5	Cyanide	EPA 335.4 Rev. 1.0
	EPA 200.7 Rev. 4.4	Fluoride, Total	SM 18-21 4500-F C (97)
Vanadium, Total	EPA 200.7 Rev. 4.4	Nitrate (as N)	EPA 353.2 Rev. 2.0
Drinking Water Metals III		Nitrite (as N)	SM 18-21 4500-NO2 B (00)
Boron, Total	EPA 200.7 Rev. 4.4	Orthophosphate (as P)	SM 18-21 4500-P E
Calcium, Total	EPA 200.5	Silica, Dissolved	EPA 200.7 Rev. 4.4
Quidum, Total	EPA 200.7 Rev. 4.4	Solids, Total Dissolved	SM 18-21 2540C (97)
Magnesium, Total	EPA 200.5	Specific Conductance	SM 18-21 2510B (97)
wagnoom, rotal	EPA 200.7 Rev. 4.4	Sulfate (as SO4)	ASTM D516-90 02 & 07
Potassium, Total	EPA 200.7 Rev. 4.4	Drinking Water Organohalide Pes	ticides
Sodium, Total	EPA 200.5	Alachlor	EPA 507
	EPA 200.7 Rev. 4.4	Aldrin	EPA 508

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All approved analytes are listed below:

Drinking Water Organohalide Pesticides		Polychlorinated Biphenyls	
Atrazine	EPA 507	PCB Screen	EPA 508
Butachlor	EPA 507	Volatile Aromatics	
Chlordane Total	EPA 508	1,2,3-Trichlorobenzene	EPA 524.2
Dieldrin	EPA 508		
Endrin	EPA 508	1,2,4-Trichlorobenzene	EPA 524.2
Heptachlor	EPA 508	1,2,4-Trimethylbenzene	EPA 524.2
Heptachlor epoxide	EPA 508	1,2-Dichlorobenzene	EPA 524.2
Lindane	EPA 508	1,3,5-Trimethylbenzene	EPA 524.2
Methoxychlor	EPA 508	1,3-Dichlorobenzene	EPA 524.2
Metolachior	EPA 507	1,4-Dichlorobenzene	EPA 524.2
Metribuzin	EPA 507	2-Chlorotoluene	EPA 524.2
Propachlor	EPA 508	4-Chlorotoluene	EPA 524.2
Simazine	EPA 507	Benzene	EPA 524.2
	EPA 508	Bromobenzene	EPA 524.2
Toxaphene	EPA 506	Chlorobenzene	EPA 524.2
<b>Drinking Water Trihalomethanes</b>		Ethyl benzene	EPA 524.2
Bromodichloromethane	EPA 524.2	Hexachlorobutadiene	EPA 524.2
Bromoform	EPA 524.2	Isopropylbenzene	EPA 524.2
Chloroform	EPA 524.2	n-Butylbenzene	EPA 524.2
Dibromochloromethane	EPA 524.2	n-Propylbenzene	EPA 524.2
Fuel Additives		p-Isopropyltoluene (P-Cymene)	EPA 524.2
Methyl tert-butyl ether	EPA 524.2	sec-Butylbenzene	EPA 524.2
	LI // QZ-1.Z	Styrene	EPA 524.2
Microextractibles		tert-Butylbenzene	EPA 524.2
1,2-Dibromo-3-chloropropane	EPA 504.1	Toluene	EPA 524.2
1,2-Dibromoethane	EPA 504.1	Total Xylenes	EPA 524.2

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EPA 524.2 EPA 524.2 EPA 524.2

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Volatile Halocarbons		Volatile Halocarbons
1,1,1,2-Tetrachloroethane	EPA 524.2	Trichloroethene
1,1,1-Trichloroethane	EPA 524.2	Trichlorofluoromethane
1,1,2,2-Tetrachloroethane	EPA 524.2	Vinyl chloride
1,1,2-Trichloroethane	EPA 524.2	
1,1-Dichloroethane	EPA 524.2	
1,1-Dichloroethene	EPA 524.2	
1,1-Dichloropropene	EPA 524.2	
1,2,3-Trichloropropane	EPA 524.2	
1,2-Dichloroethane	EPA 524.2	
1,2-Dichloropropane	EPA 524.2	
1,3-Dichloropropane	EPA 524.2	
2,2-Dichloropropane	EPA 524.2	
Bromochloromethane	EPA 524.2	
Bromomethane	EPA 524.2	
Carbon tetrachloride	EPA 524.2	
Chloroethane	EPA 524.2	
Chloromethane	EPA 524.2	
cis-1,2-Dichloroethene	EPA 524.2	Party March 1991
cis-1,3-Dichloropropene	EPA 524.2	
Dibromomethane	EPA 524.2	
Dichlorodifluoromethane	EPA 524.2	
Methylene chloride	EPA 524.2	
Service Sentilities appointed.	Name and the second sec	

Serial No.: 46033

Tetrachloroethene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

EPA 524.2 EPA 524.2

EPA 524.2





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NY Lab Id No: 10320

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Acrylates		Amines	
Acrolein (Propenal)	EPA 624	Methapyrilene	EPA 8270C
	EPA 8260B	Pronamide	EPA 8270C
Acrylonitrile	EPA 624	Propionitrile	EPA 8260B
	EPA 8260B	Pyridine	EPA 8260B
Ethyl methacrylate	EPA 8260B		EPA 8270C
Methyl acrylonitrile	EPA 8260B		EPA 8270D
Methyl methacrylate	EPA 8260B	Bacteriology	
Amines		Coliform, Fecal	SM 18-21 9221E (99)
1,4-Phenylenediamine	EPA 8270C	Coliform, Total	SM 18-21 9221B (99)
1-Naphthylamine	EPA 8270C	E. coli (Enumeration)	Colilert
2-Naphthylamine	EPA 8270C		SM 18-20 9221F
2-Nitroaniline	EPA 8270C	Enterococci	Enterolert
	EPA 8270D	Standard Plate Count	SimPlate
3-Nitroaniline	EPA 8270C		SM 18-21 9215B
	EPA 8270D	Benzidines	
4-Chloroaniline	EPA 8270C	3,3'-Dichlorobenzidine	EPA 625
	EPA 8270D	3,3 -Did ildiouchziquie	EPA 8270D
4-Nitroaniline	EPA 8270C	3,3'-Dimethylbenzidine	EPA 8270D
	EPA 8270D	Benzidine	EPA 625
5-Nitro-o-toluidine	EPA 8270C	benzidirie ,	EPA-023
Aniline	EPA 8270C	Carbamate Pesticides	
	EPA 8270D	Aldicarb	EPA 8318
Carbazole	EPA 8270C	Aldicarb Sulfone	EPA 8318
	EPA 8270D	Carbofuran	EPA 8318
Diphenylamine	EPA 8270C		

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All approved analytes are listed below:

Chlorinated Hydrocarbon Pes	sticides	Chlorinated Hydrocarbon Pestic	ides
4,4'-DDD	EPA 608	Endrin	EPA 608
	EPA 8081A		EPA 8081A
4,4'-DDE	EPA 608	Endrin aldehyde	EPA 608
	EPA 8081A		EPA 8081A
4,4'-DDT	EPA 608	Endrin Ketone	EPA 8081A
	EPA 8081A	gamma-Chlordane	EPA 8081A
Aldrin	EPA 608	Heptachlor	EPA 608
	EPA 8081A		EPA 8081A
alpha-BHC	EPA 608	Heptachlor epoxide	EPA 608
	EPA 8081A		EPA 8081A
alpha-Chlordane	EPA 8081A	Lindane	EPA 608
beta-BHC	EPA 608		EPA 8081A
	EPA 8081A	Methoxychlor	EPA 608
Chlordane Total	EPA 608		EPA 8081A
	EPA 8081A	Mirex	SM 18-20 6630B
delta-BHC	EPA 608	Toxaphene	EPA 608
	EPA 8081A		EPA 8081A
Dieldrin	EPA 608	Chlorinated Hydrocarbons	
	EPA 8081A		EPA 8270C
Endosulfan I	EPA 608	1,2,4,5-Tetrachlorobenzene	
	EPA 8081A	1,2,4-Trichlorobenzene	EPA 625
Endosulfan II	EPA 608		EPA 8270C
	EPA 8081A	1 Chloronouhthologo	EPA 8270D
Endosulfan sulfate	EPA 608	1-Chloronaphthalene	EPA 8270C
	EPA 8081A	2-Chloronaphthalene	EPA 625
			EPA 8270C

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Chlorinated Hydrocarbons		Chlorophenoxy Acid Pesticides	
2-Chloronaphthalene	EPA 8270D	Dicamba	EPA 1978 p.115
Hexachlorobenzene	EPA 625		EPA 8151A
	EPA 8270C	Dinoseb	EPA 8151A
	EPA 8270D	Demand	
Hexachlorobutadiene	EPA 625	Biochemical Oxygen Demand Carbonaceous BOD	SM 18-21 5210B (01)
	EPA 8270C		SM 18-21 5210B (01)
	EPA 8270D	Chemical Oxygen Demand	EPA 410.4 Rev. 2.0
Hexachlorocyclopentadiene	EPA 625		EPA 410.4 Rev. 2.0
	EPA 8270C	Fuel Oxygenates	
	EPA 8270D	Di-isopropyl ether	EPA 8015 B
Hexachloroethane	EPA 625		EPA 8260B
	EPA 8270C	Ethanol	EPA 8015 B
	EPA 8270D		EPA 8260B
Hexachloropropene	EPA 8270C	Methyl tert-butyl ether	EPA 8260B
Pentachlorobenzene	EPA 8270C	tert-amyl alcohol	EPA 8015 B
Chlorophenoxy Acid Pesticides			EPA 8260B
[[[]] [[] [[] [] [] [[] [] [] [] [[] []	FD\$ 4070 - 445	tert-amyl methyl ether (TAME)	EPA 8015 B
2,4,5-T	EPA 1978 p.115		EPA 8260B
ASSESSOR MARKET AND TO A STATE OF	EPA 8151A	tert-butyl alcohol	EPA 8015 B
2,4,5-TP (Silvex)	EPA 1978 p.115		EPA 8260B
	EPA 8151A	tert-butyl ethyl ether (ETBE)	EPA 8015 B
	SM 18-20 6640B		EPA 8260B
2,4-D	EPA 1978 p.115	Haloethers	
	EPA 8151A		
	SM 18-20 6640B	4-Bromophenylphenyl ether	EPA 625
Datapon	EPA 8151A		EPA 8270C

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Haloethers		Nitroaromatics and Isophorone	
4-Bromophenylphenyl ether	EPA 8270D	2,4-Dinitrotoluene	EPA 625
4-Chlorophenylphenyl ether	EPA 625		EPA 8270C
	EPA 8270C		EPA 8270D
	EPA 8270D	2,6-Dinitrotoluene	EPA 625
Bis (2-chloroisopropyl) ether	EPA 625		EPA 8270C
	EPA 8270C		EPA 8270D
	EPA 8270D	Isophorone	EPA 625
Bis(2-chloroethoxy)methane	EPA 625		EPA 8270C
	EPA 8270C		EPA 8270D
	EPA 8270D	Nitrobenzene	EPA 625
Bis(2-chloroethyl)ether	EPA 625		EPA 8270C
	EPA 8270C		EPA 8270D
	EPA 8270D	Nitrosoamines	
Mineral		N-Nitrosodiethylamine	EPA 8270C
Acidity	SM 18-21 2310B.4a (97)	N-Nitrosodimethylamine	EPA 625
Alkalinity	SM 18-21 2320B (97)		EPA 8270C
Calcium Hardness	EPA 200.7 Rev. 4.4		EPA 8270D
Chloride	SM 18-21 4500-CI- B (97)	N-Nitrosodi-n-butylamine	EPA 8270C
Fluoride, Total	SM 18-21 4500-F C (97)	N-Nitrosodi-n-propylamine	EPA 625
Hardness, Total	EPA 200.7 Rev. 4.4		EPA 8270C
Sulfate (as SO4)	ASTM D516-90 02 & 07		EPA 8270D
Nitroaromatics and Isophorone		N-Nitrosodiphenylamine	EPA 625
1,3,5-Trinitrobenzene	EPA 8270C		EPA 8270C
1,3-Dinitrobenzene	EPA 8270C		EPA 8270D
1,4-Naphthoguinone	EPA 8270C	N-nitrosopiperidine	EPA 8270C
.,			

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Nitrosoamines		Phthalate Esters	
N-Nitrosopyrrolidine	EPA 8270C	Benzyl butyl phthalate	EPA 8270C
Nutrient			EPA 8270D
Ammonia (as N)	SM 19-21 4500 NH3-C (97)	Bis(2-ethylhexyl) phthalate	EPA 625
	SM 19-21 4500-NH3 D or E (97)		EPA 8270C
Kjeldahl Nitrogen, Total	SM 19-21 4500 NH3-C (97)		EPA 8270D
Nitrate (as N)	EPA 353.2 Rev. 2.0	Diethyl phthalate	EPA 625
	SM 18-21 4500-NO3 F (00)		EPA 8270C
Nitrite (as N)	SM 18-21 4500-NO2 B (00)		EPA 8270D
Orthophosphate (as P)	EPA 365.3 Rev. 1978	Dimethyl phthalate	EPA 625
Phosphorus, Total	EPA 365.3 Rev. 1978		EPA 8270C
A			EPA 8270D
Organophosphate Pesticides		Di-n-butyl phthalate	EPA 625
Azinphos methyl	EPA 8270C		EPA 8270C
Demeton-O	EPA 8270C		EPA 8270D
Demeton-S	EPA 8270C	Di-n-octyl phthalate	EPA 625
Diazinon	EPA 8270C		EPA 8270C
Dimethoate	EPA 8270C		EPA 8270D
Disulfoton	EPA 8270C	Polyablasiasted Biohanda	
Famphur	EPA 8270C	Polychlorinated Biphenyls	
Malathion	EPA 8270C	PCB-1016	EPA 608
Parathion ethyl	EPA 8270C		EPA 8082
Parathion methyl	EPA 8270C		EPA 8270C
Phorate	EPA 8270C	PCB-1221	EPA 608
Phthalate Esters			EPA 8082
Benzyl butyl phthalate	EPA 625		EPA 8270C
benzyi butyi phthalate	EFA 025	PCB-1232	EPA 608

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NY Lab Id No: 10320

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Polychlorinated Biphenyls		Polynuclear Aromatics	
PCB-1232	EPA 8082	Anthracene	EPA 8270D
	EPA 8270C	Benzo(a)anthracene	EPA 625
PCB-1242	EPA 608		EPA 8270C
	EPA 8082		EPA 8270D
	EPA 8270C	Benzo(a)pyrene	EPA 625
PCB-1248	EPA 608		EPA 8270C
	EPA 8082		EPA 8270D
	EPA 8270C	Benzo(b)fluoranthene	EPA 625
PCB-1254	EPA 608		EPA 8270C
	EPA 8082		EPA 8270D
	EPA 8270C	Benzo(ghi)perylene	EPA 625
PCB-1260	EPA 608		EPA 8270C
	EPA 8082		EPA 8270D
	EPA 8270C	Benzo(k)fluoranthene	EPA 625
Polynuclear Aromatics			EPA 8270C
3-Methylcholanthrene	EPA 8270C		EPA 8270D
7,12-Dimethylbenzyl (a) anthracene	EPA 8270C	Chrysene	EPA 625
Acenaphthene	EPA 625		EPA 8270C
AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASS	EPA 8270C		EPA 8270D
	EPA 8270D	Dibenzo(a,h)anthracene	EPA 625
Acenaphthylene	EPA 625		EPA 8270C
AND THE PROPERTY AND AND ADDRESS OF THE PARTY OF THE PART	EPA 8270C		EPA 8270D
	EPA 8270D	Fluoranthene	EPA 625
Anthracene	EPA 625		EPA 8270C
	EPA 8270C		EPA 8270D

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All approved analytes are listed below:

Polynuclear Aromatics		Priority Pollutant Phenois	
Fluorene	EPA 625	2,4-Dichlorophenol	EPA 8270D
	EPA 8270C	2,4-Dimethylphenol	EPA 625
	EPA 8270D		EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 625		EPA 8270D
	EPA 8270C	2,4-Dinitrophenol	EPA 625
	EPA 8270D		EPA 8270C
Naphthalene	EPA 625		EPA 8270D
	EPA 8270C	2,6-Dichlorophenol	EPA 8270C
	EPA 8270D	2-Chlorophenol	EPA 625
Phenanthrene	EPA 625		EPA 8270C
	EPA 8270C		EPA 8270D
	EPA 8270D	2-Methyl-4,6-dinitrophenol	EPA 625
Pyrene	EPA 625		EPA 8270C
	EPA 8270C		EPA 8270D
	EPA 8270D	2-Methylphenol	EPA 8270C
Priority Pollutant Phenois			EPA 8270D
2,3,4,6 Tetrachlorophenol	EPA 8270C	2-Nitrophenol	EPA 625
2,4,5-Trichlorophenol	EPA 625		EPA 8270C
2,4,5-Thorrophenor	EPA 8270C		EPA 8270D
	EPA 8270D	3-Methylphenol	EPA 8270C
2,4,6-Trichlorophenol	EPA 625	4-Chloro-3-methylphenol	EPA 625
2,4,0- (Hallorophenol	EPA 8270C		EPA 8270C
	EPA 8270D		EPA 8270D
2,4-Dichlorophenol	EPA 625	4-Methylphenol	EPA 8270C
z,+-bicilioropherioi	EPA 8270C		EPA 8270D
	EPA 82/00		

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All approved analytes are listed below:

Priority Pollutant Phenols		Semi-Volatile Organics	
4-Nitrophenol	EPA 625	Acetophenone	EPA 8270C
	EPA 8270C	Benzoic Acid	EPA 8270C
	EPA 8270D		EPA 8270D
Cresols, Total	EPA 8270C	Benzyl alcohol	EPA 8270C
Pentachlorophenol	EPA 625		EPA 8270D
	EPA 8270C	Dibenzofuran	EPA 8270C
	EPA 8270D		EPA 8270D
Phenol	EPA 625	Ethyl methanesulfonate	EPA 8270C
	EPA 8270C	Isosafrole	EPA 8270C
	EPA 8270D	Methyl methanesulfonate	EPA 8270C
Residue		O,O,O-Triethyl phosphorothicate	EPA 8270C
Settleable Solids	SM 18-21 2540 F (97)	p-Dimethylaminoazobenzene	EPA 8270C
Solids, Total	SM 18-21 2540B (97)	Phenacetin	EPA 8270C
Solids, Total Dissolved	SM 18-21 2540C (97)	Safrole	EPA 8270C
Solids, Total Suspended	SM 18-21 2540D (97)	Volatile Aromatics	
Semi-Volatile Organics		1,2-Dichlorobenzene	EPA 624
1,2-Dichlorobenzene, Semi-volatile	EPA 8270C		EPA 8260B
	EPA 8270D	1,3-Dichlorobenzene	EPA 624
1,3-Dichlorobenzene, Semi-volatile	EPA 8270C		EPA 8260B
	EPA 8270D	1,4-Dichlorobenzene	EPA 624
1,4-Dichlorobenzene, Semi-volatile	EPA 8270C		EPA 8260B
AND THE PROPERTY OF	EPA 8270D	Benzene	EPA 624
2-Methylnaphthalene	EPA 8270C		EPA 8260B
	EPA 8270D	Chlorobenzene	EPA 624
4-Amino biphenyl	EPA 8270C		EPA 8260B
S Controller and William Control	data time and a contraction.		

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Expires 12:01 AM April 01, 2013 Issued April 1, 2012

#### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER All approved analytes are listed below:

Volatile Aromatics		Volatile Halocarbons	
Ethyl benzene	EPA 624	1,2-Dichloropropane	EPA 624
	EPA 8260B		EPA 8260B
Styrene	EPA 8260B	1,3-Dichloropropane	EPA 8260B
Toluene	EPA 624	2,2-Dichloropropane	EPA 8260B
	EPA 8260B	2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260B
Total Xylenes	EPA 624	2-Chloroethylvinyl ether	EPA 8260B
	EPA 8260B	3-Chloropropene (Allyl chloride)	EPA 8260B
Volatile Halocarbons		Bromodichloromethane	EPA 624
1,1,1,2-Tetrachloroethane	EPA 8260B		EPA 8260B
1,1,1-Trichloroethane	EPA 624	Bromoform	EPA 624
	EPA 8260B		EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 624	Bromomethane	EPA 624
	EPA 8260B		EPA 8260B
1,1,2-Trichloroethane	EPA 624	Carbon tetrachloride	EPA 624
	EPA 8260B		EPA 8260B
1,1-Dichloroethane	EPA 624	Chloroethane	EPA 624
	EPA 8260B		EPA 8260B
1,1-Dichloroethene	EPA 624	Chloroform	EPA 624
	EPA 8260B		EPA 8260B
1,1-Dichloropropene	EPA 8260B	Chloromethane	EPA 624
1,2,3-Trichloropropane	EPA 8260B		EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8011	cis-1,2-Dichloroethene	EPA 8260B
1,2-Dibromoethane	EPA 8011	cis-1,3-Dichloropropene	EPA 624
1,2-Dichloroethane	EPA 624		EPA 8260B
	EPA 8260B	cis-1,4-Dichloro-2-butene	EPA 8260B

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Volatile Halocarbons		Volatiles Organics	
Dibromochloromethane	EPA 624	Acetone	EPA 8260B
	EPA 8260B	Acetonitrile	EPA 8260B
Dibromomethane	EPA 8260B	Carbon Disulfide	EPA 8260B
Dichlorodifluoromethane	EPA 8260B	Isobutyl alcohol	EPA 8260B
Methyl iodide	EPA 8260B	o-Toluidine	EPA 8260B
Methylene chloride	EPA 624	Vinyl acetate	EPA 8260B
	EPA 8260B	Wastewater Metals I	
Tetrachloroethene	EPA 624	Barium, Total	EPA 200.7 Rev. 4.4
	EPA 8260B	Danum, Total	EPA 6010B
trans-1,2-Dichloroethene	EPA 624	Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 8260B	Caumium, Total	
trans-1,3-Dichloropropene	EPA 624	Calcium, Total	EPA 6010B EPA 200.7 Rev. 4.4
	EPA 8260B	Caldium, Total	
trans-1,4-Dichloro-2-butene	EPA 8260B	Character Tatal	EPA 6010B
Trichloroethene	EPA 624	Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 8260B		EPA 6010B
Trichlorofluoromethane	EPA 624	Copper, Total	EPA 200.7 Rev. 4.4
	EPA 8260B	F" "The Wassen." Int. 1885, Will."	EPA 60108
Vinyl chloride	EPA 624	Iron, Total	EPA 200.7 Rev. 4.4
ARTON ARTON ARTON	EPA 8260B		EPA 6010B
		Lead, Total	EPA 200.7 Rev. 4.4
Volatiles Organics			EPA 6010B
1,4-Dioxane	EPA 8260B	Magnesium, Total	EPA 200.7 Rev. 4.4
2-Butanone (Methylethyl ketone)	EPA 8260B		EPA 6010B
2-Hexanone	EPA 8260B	Manganese, Total	EPA 200.7 Rev. 4.4
4-Methyl-2-Pentanone	EPA 8260B		EPA 6010B

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Wastewater Metals I		Wastewater Metals II	
Nickel, Total	EPA 200.7 Rev. 4.4	Selenium, Total	EPA 6010B
	EPA 6010B	Vanadium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4		EPA 6010B
	EPA 6010B	Zinc, Total	EPA 200.7 Rev. 4.4
Silver, Total	EPA 200.7 Rev. 4.4		EPA 6010B
	EPA 6010B	Wastewater Metals III	
Sodium, Total	EPA 200.7 Rev. 4.4	Cobalt, Total	EPA 200.7 Rev. 4.4
	EPA 6010B	Cubait, Total	
Strontium, Total	EPA 200.7 Rev. 4.4	Real designation (Total)	EPA 6010B
	EPA 6010B	Molybdenum, Total	EPA 200.7 Rev. 4.4
Wastewater Metals II		D. Hadiyat Tatal	EPA 6010B
	EPA 200.7 Rev. 4.4	Palladium, Total	EPA 255.2
Aluminum, Total		Thallium, Total	EPA 200.7 Rev. 4.4
7-4-1	EPA 6010B	Tin, Total	EPA 200.7 Rev. 4.4
Antimony, Total	EPA 200.7 Rev. 4.4		EPA 6010B
	EPA 6010B	Titanium, Total	EPA 200.7 Rev. 4.4
Arsenic, Total	EPA 200.7 Rev. 4.4		EPA 6010B
	EPA 6010B	Wastewater Miscellaneous	
Beryllium, Total	EPA 200.7 Rev. 4.4	Boron, Total	EPA 200.7 Rev. 4.4
	EPA 6010B		EPA 6010B
Chromium VI	EPA 7196A	Color	SM 18-21 2120B (01)
	SM 18-19 3500-Cr D	Cyanide, Total	EPA 335.4 Rev. 1.0
Mercury, Total	EPA 245.1 Rev. 3.0	Print, Attribution total and according	EPA 9012A
	EPA 245.2 Rev. 1974	Oil & Grease Total Recoverable (HEM)	
	EPA 7470A		EPA 9070 (Solvent:Hexane)
Selenium, Total	EPA 200.7 Rev. 4.4	Organic Carbon, Total	SM 18-21 5310C (00)
THE STATE OF THE S			3 13 21 00 100 (00)

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#### Wastewater Miscellaneous

Phenols EPA 420.1 Rev. 1978 Silica, Dissolved EPA 200.7 Rev. 4.4 EPA 6010B

Specific Conductance EPA 120.1 Rev. 1982

SM 18-21 2510B (97)

 Sulfide (as S)
 SM 18-21 4500-S D (00)

 Surfactant (MBAS)
 SM 18-21 5540C (00)

Total Petroleum Hydrocarbons EPA 1664A

Turbidity SM 18-21 2130 B (01)

#### Sample Preparation Methods

EPA 200.2 EPA 3005A EPA 3010A EPA 3020A EPA 3510C EPA 5030B EPA 9030B

> SM 18-21 4500-N Org B or C (97) SM 18-21 4500-NH3 B (97)

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Acrylates		Carbamate Pesticides	
Acrolein (Propenal)	EPA 8260B	Aldicarb	EPA 8318
Acrylonitrile	EPA 8260B	Aldicarb Sulfone	EPA 8318
Ethyl methacrylate	EPA 8260B	Carbofuran	EPA 8318
Methyl acrylonitrile	EPA 8260B	Characteristic Testing	
Methyl methacrylate	EPA 8260B	Ignitability	EPA 1010
Amines		Reactivity	SW-846 Ch7 Sec. 7.3
1,2-Diphenylhydrazine	EPA 8270C		
1,4-Phenylenediamine	EPA 8270C	Chlorinated Hydrocarbon Pes	
1-Naphthylamine	EPA 8270C	4,4'-DDD	EPA 8081A
2-Naphthylamine	EPA 8270C		EPA 8081B
2-Nitroaniline	EPA 8270C	4,4'-DDE	EPA 8081A
3-Nitroaniline	EPA 8270C		EPA 8081B
4-Chloroaniline	EPA 8270C	4,4'-DDT	EPA 8081A
4-Nitroaniline	EPA 8270C		EPA 8081B
5-Nitro-o-toluidine	EPÁ 8270C	Aldrin	EPA 8081A
Aniline	EPA 8270C		EPA 8081B
Carbazole	EPA 8270C	alpha-BHC	EPA 8081A
Diphenylamine	EPA 8270C		EPA 8081B
Methapyrilene	EPA 8270C	alpha-Chlordane	EPA 8081A
Pronamide	EPA 8270C		EPA 8081B
		beta-BHC	EPA 8081A
Benzidines			EPA 8081B
3,3'-Dichlorobenzidine	EPA 8270C	Chiordane Total	EPA 8081A
3,3'-Dimethylbenzidine	EPA 8270C		EPA 8081B
Benzidine	EPA 8270C	Chlorobenzilate	EPA 8081B
			EPA 8270C

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Chlorinated Hydrocarbon Pes	ticides	Chlorinated Hydrocarbon Pesticio	les
delta-BHC	EPA 8081A	Methoxychlor	EPA 8081A
	EPA 8081B		EPA 8081B
Diallate	EPA 8270C	Pentachloronitrobenzene	EPA 8270C
Dieldrin	EPA 8081A	Toxaphene	EPA 8081A
	EPA 8081B		EPA 8081B
Endosulfan I	EPA 8081A	Chlorinated Hydrocarbons	
	EPA 8081B	1,2,4,5-Tetrachlorobenzene	EPA 8270C
Endosulfan II	EPA 8081A	1,2,4-Trichlorobenzene	EPA 8270C
	EPA 8081B	1,2,4-1 nchlorobenzene	EPA 8270D
Endosulfan sulfate	EPA 8081A	MENT OF REALTH	EPA 8270C
	EPA 8081B	2-Chloronaphthalene	EPA 8270D
Endrin	EPA 8081A	Hexachlorobenzene	EPA 8270D
	EPA 8081B		EPA 8270C
Endrin aldehyde	EPA 8081A	Hexachlorobutadiene	EPA 8270D
	EPA 8081B		EPA 8270C
Endrin Ketone	EPA 8081A		
	EPA 8081B	Hexachlorocyclopentadiene	EPA 8270C
gamma-Chlordane	EPA 8081A		EPA 8270D
	EPA 8081B	Hexachloroethane	EPA 8270C
Heptachlor	EPA 8081A		EPA 8270D
	EPA 8081B	Hexachlorophene	EPA 8270C
Heptachlor epoxide	EPA 8081A	Hexachloropropene	EPA 8270C
	EPA 8081B	Pentachlorobenzene	EPA 8270C
Lindane	EPA 8081A	Chlorophenoxy Acid Pesticides	
	EPA 8081B	2,4,5-T	EPA 8151A
		2,4,5-TP (Silvex)	EPA 8151A

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Chlorophenoxy Acid Pesticides		Metals I	
2,4-D	EPA 8151A	Manganese, Total	EPA 6010B
Dalapon	EPA 8151A	Nickel, Total	EPA 6010B
Dicamba	EPA 8151A	Potassium, Total	EPA 6010B
Dinoseb	EPA 8151A	Silver, Total	EPA 6010B
MCPP	EPA 8151A	Sodium, Total	EPA 6010B
Haloethers		Metals II	
4-Bromophenylphenyl ether	EPA 8270C	Aluminum, Total	EPA 6010B
	EPA 8270D	Antimony, Total	EPA 6010B
4-Chlorophenylphenyl ether	EPA 8270C	Arsenic, Total	EPA 6010B
	EPA 8270D	Beryllium, Total	EPA 6010B
Bis (2-chloroisopropyl) ether	EPA 8270C	Chromium VI	EPA 7196A
	EPA 8270D	Lithium, Total	EPA 6010B
Bis(2-chloroethoxy)methane	EPA 8270C	Mercury, Total	EPA 7471A
	EPA 8270D	Selenium, Total	EPA 6010B
Bis(2-chloroethyl)ether	EPA 8270C	Vanadium, Total	EPA 6010B
	EPA 8270D	Zinc, Total	EPA 6010B
Metals I		Metals III	
Barium, Total	EPA 6010B	Cobalt, Total	EPA 6010B
Cadmium, Total	EPA 6010B	Molybdenum, Total	EPA 6010B
Calcium, Total	EPA 6010B	Silica, Dissolved	EPA 6010B
Chromium, Total	EPA 6010B	Thallium, Total	EPA 6010B
Copper, Total	EPA 6010B	Tin, Total	EPA 6010B
Iron, Total	EPA 6010B	Titanium, Total	EPA 6010B
Lead, Total	EPA 6010B		
Magnesium, Total	EPA 6010B		

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All approved analytes are listed below:

Minerals		Nitrosoamines	
Chloride	EPA 9253	N-Nitrosodi-n-butylamine	EPA 8270C
Fluoride, Total	EPA 9214	N-Nitrosodi-n-propylamine	EPA 8270C
Sulfate (as SO4)	EPA 9038	N-Nitrosodlphenylamine	EPA 8270C
Miscellaneous		N-nitrosomorpholine	EPA 8270C
Boron, Total	EPA 6010B	N-nitrosopiperidine	EPA 8270C
Cyanide, Total	EPA 9012A	N-Nitrosopyrrolidine	EPA 8270C
Phenois	EPA 9065	Organophosphate Pesticides	
Specific Conductance	EPA 9050	Azinphos methyl	EPA 8270C
Nitroaromatics and Isophorone		Coumaphos	EPA 8270C
1,4-Naphthoquinone	EPA 8270C	Demeton-O	EPA 8270C
2,4-Dinitrotoluene	EPA 8270C	Demeton-S	EPA 8270C
2, i build of old only	EPA 8270D	Diazinon	EPA 8270C
2,6-Dinitrotoluene	EPA 8270C	Dichlorvos	EPA 8270C
a,o annociació	EPA 8270D	Dimethoate	EPA 8270C
4-Dimethylaminoazobenzene	EPA 8270C	Disulfoton	EPA 8270C
Isophorone	EPA 8270C	EPN	EPA 8270C
	EPA 8270D	Famphur	EPA 8270C
Nitrobenzene	EPA 8270C	Fensulfothion	EPA 8270C
	EPA 8270D	Fenthion	EPA 8270C
Pyridine	EPA 8270C	Malathion	EPA 8270C
	EPA 8270D	Mevinphos	EPA 8270C
AND THE ADMINISTRATION OF THE PARTY OF THE P		NALED	EPA 8270C
Nitrosoamines		Parathion ethyl	EPA 8270C
N-Nitrosodiethylamine	EPA 8270C	Parathion methyl	EPA 8270C
N-NitrosodImethylamine	EPA 8270C	Phorate	EPA 8270C

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Organophosphate Pesticides		Polychlorinated Biphenyls	
Sulfotepp	EPA 8270C	PCB-1221	EPA 8082A
Thlonazin	EPA 8270C		EPA 8270C
Petroleum Hydrocarbons		PCB-1232	EPA 8082
Diesel Range Organics	EPA 8015 B		EPA 8082A
Gasoline Range Organics	EPA 8015 B		EPA 8270C
Oil & Grease Total Recoverable (HEM)	EPA 9071 (Solvent:Hexane)	PCB-1242	EPA 8082
			EPA 8082A
Phthalate Esters			EPA 8270C
Benzyl butyl phthalate	EPA 8270C	PCB-1248	EPA 8082
	EPA 8270D		EPA 8082A
Bis(2-ethylhexyl) phthalate	EPA 8270C		EPA 8270C
	EPA 8270D	PCB-1254	EPA 8082
Diethyl phthalate	EPA 8270C		EPA 8082A
	EPA 8270D		EPA 8270C
Dimethyl phthalate	EPA 8270C	PCB-1260	EPA 8082
	EPA 8270D		EPA 8082A
Di-n-butyl phthalate	EPA 8270C		EPA 8270C
	EPA 8270D		
Di-n-octyl phthalate	EPA 8270C	Polynuclear Aromatic Hydrocarbons	
	EPA 8270D	3-Methylcholanthrene	EPA 8270C
Debughterings of Disheards		7,12-Dimethylbenzyl (a) anthracene	EPA 8270C
Polychlorinated Biphenyls		Acenaphthene	EPA 8270C
PCB-1016	EPA 8082		EPA 8270D
	EPA 8082A	Acenaphthylene	EPA 8270C
	EPA 8270C		EPA 8270D
PCB-1221	EPA 8082	Anthracene	EPA 8270C

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Polynuclear Aromatic Hydrocarl	bons	Polynuclear Aromatic Hydrocarb	oons
Anthracene	EPA 8270D	Pyrene	EPA 8270C
Benzo(a)anthracene	EPA 8270C		EPA 8270D
	EPA 8270D	Priority Pollutant Phenols	
Benzo(a)pyrene	EPA 8270C	2,3,4,6 Tetrachlorophenol	EPA 8270C
	EPA 8270D	2,4,5-Trichlorophenol	EPA 8270C
Benzo(b)fluoranthene	EPA 8270C	2,4,5-Thanorophenor	EPA 8270D
	EPA 8270D	2,4,6-Trichlorophenol	EPA 8270C
Benzo(ghi)perylene	EPA 8270C	2,4,0-111Gniorophenoi	
	EPA 8270D	2,4-Dichlorophenol	EPA 8270D
Benzo(k)fluoranthene	EPA 8270C	2,4-Dichloropherior	EPA 8270C
	EPA 8270D	2,4-Dimethylphenol	EPA 8270D
Chrysene	EPA 8270C	2,4-Dimethylphenol	EPA 8270C
	EPA 8270D	2,4-Dinitrophenol	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270C		EPA 8270C
	EPA 8270D	2 & Dieblessehaust	EPA 8270D
Fluoranthene	EPA 8270C	2,6-Dichlorophenol	EPA 8270C
	EPA 8270D	2-Chlorophenol	EPA 8270C
Fluorene	EPA 8270C		EPA 8270D
	EPA 8270D	2-Methyl-4,6-dinitrophenol	EPA 8270C
Indeno(1,2,3-cd)pyrene	EPA 8270C		EPA 8270D
	EPA 8270D	2-Methylphenol	EPA 8270C
Naphthalene	EPA 8270C		EPA 8270D
	EPA 8270D	2-Nitrophenol	EPA 8270C
Phenanthrene	EPA 8270C		EPA 8270D
	EPA 8270D 3-Methylphenol	EPA 8270C	
			EPA 8270D

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Priority Pollutant Phenois		Volatile Aromatics	
4-Chloro-3-methylphenol	EPA 8270C	1,2-Dichlorobenzene	EPA 8260B
	EPA 8270D	1,3,5-Trimethylbenzene	EPA 8260B
4-Methylphenol	EPA 8270C	1,3-Dichlorobenzene	EPA 8260B
	EPA 8270D	1,4-Dichlorobenzene	EPA 8260B
4-Nitrophenol	EPA 8270C	2-Chlorotoluene	EPA 8260B
	EPA 8270D	4-Chlorotoluene	EPA 8260B
Pentachlorophenol	EPA 8270C	Benzene	EPA 8260B
	EPA 8270D	Bromobenzene	EPA 8260B
Phenol	EPA 8270C	Chlorobenzene	EPA 8260B
	EPA 8270D	Ethyl benzene	EPA 8260B
Semi-Volatile Organics		Isopropylbenzene	EPA 8260B
2-Methylnaphthalene	EPA 8270C	Naphthalene, Volatile	EPA 8260B
4-Amino biphenyl	EPA 8270C	n-Butylbenzene	EPA 8260B
Acetophenone	EPA 8270C	n-Propylbenzene	EPA 8260B
Benzoic Acid	EPA 8270C	p-Isopropyltoluene (P-Cymene)	EPA 8260B
Benzyl alcohol	EPA 8270C	sec-Butylbenzene	EPA 8260B
Dibenzofuran	EPA 8270C	Styrene	EPA 8260B
Ethyl methanesulfonate	EPA 8270C	tert-Butylbenzene	EPA 8260B
Isosafrole	EPA 8270C	Toluene	EPA 8260B
Methyl methanesulfonate	EPA 8270C	Total Xylenes	EPA 8260B
O,O,O-Triethyl phosphorothioate	EPA 8270C	Volatile Halocarbons	
Phenacetin	EPA 8270C	1,1,1,2-Tetrachloroethane	EPA 8260B
Safrole	EPA 8270C	1,1,1-Trichloroethane	EPA 8260B
		1,1,2,2-Tetrachloroethane	EPA 8260B
Volatile Aromatics		1,1,2-Trichloroethane	EPA 8260B
1,2,4-Trimethylbenzene	EPA 8260B	Miller and Miller Especially, Name Asset	ACUERTANIA TANAHAN

Serial No.: 46035





Expires 12:01 AM April 01, 2013 Issued April 1, 2012

#### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved analytes are listed below:

Volatile Halocarbons		Volatile Halocarbons	
1,1-Dichloroethane	EPA 8260B	Dibromomethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B	Dichlorodifluoromethane	EPA 8260B
1,1-Dichloropropene	EPA 8260B	Methylene chloride	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B	Tetrachloroethene	EPA 8260B
1,2-Dibromo-3-chloropropane	EPA 8260B	trans-1,2-Dichloroethene	EPA 8260B
1,2-Dibromoethane	EPA 8260B	trans-1,3-Dichloropropene	EPA 8260B
1,2-Dichloroethane	EPA 8260B	trans-1,4-Dichloro-2-butene	EPA 8260B
1,2-Dichloropropane	EPA 8260B	Trichloroethene	EPA 8260B
1,3-Dichloropropane	EPA 8260B	Trichlorofluoromethane	EPA 8260B
2,2-Dichloropropane	EPA 8260B	Vinyt chloride	EPA 8260B
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260B	Volatile Organics	
2-Chloroethylvinyl ether	EPA 8260B	1,4-Dioxane	EPA 8260B
3-Chloropropene (Allyl chloride)	EPA 8260B	2-Butanone (Methylethyl ketone)	EPA 8260B
Bromochloromethane	EPA 8260B	2-Hexanone	EPA 8260B
Bromodichloromethane	EPA 8260B	4-Methyl-2-Pentanone	EPA 8260B
Bromoform	EPA 8260B	Acetone	EPA 8260B
Bromomethane	EPA 8260B	Acetonitrile	EPA 8260B
Carbon tetrachloride	EPA 8260B	Carbon Disulfide	EPA 8260B
Chloroethane	EPA 8260B	Ethyl Acetate	EPA 8260B
Chloroform	EPA 8260B	Ethylene Glycol	EPA 8015 B
Chloromethane	EPA 8260B	Isobutyl alcohol	
cis-1,2-Dichloroethene	EPA 8260B	Methyl tert-butyl ether	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B	o-Toluidine	EPA 8260B
cis-1,4-Dichloro-2-butene	EPA 8260B		EPA 8270C
Dibromochloromethane	EPA 8260B	Propionitrile	EPA 8260B
		Vinyl acetate	EPA 8260B

Serial No.: 46035





Expires 12:01 AM April 01, 2013 Issued April 1, 2012

### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved analytes are listed below:

#### Sample Preparation Methods

EPA 1310
EPA 3005A
EPA 3010A
EPA 3020A
EPA 3050B
EPA 3545
EPA 3550B
EPA 3550B
EPA 5030B
EPA 5030B
EPA 5030B

Serial No.: 46035





Expires 12:01 AM April 01, 2013 Issued April 1, 2012

### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704

NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

### Miscellaneous

Lead in Dust Wipes Lead in Paint **EPA 6010B** 

SM 18-21 3120B (99)

Serial No.: 46036



Expires 12:01 AM April 01, 2013 Issued April 1, 2012

#### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Acrylates		Polychlorinated Biphenyls	
Acrylonitrile	EPA TO-15	PCB-1260	NIOSH 5503
Ethyl acrylate	EPA TO-15	Polynuclear Aromatics	
Methyl methacrylate	EPA TO-15		FDA TO 444
Chlorinated Hydrocarbon Pesticio	les	Benzo(a)pyrene	EPA TO-14A NIOSH 5515
4,4'-DDT	NIOSH 2, VOL. 3 S274	Naphthalene	EPA TO-14A
Aldrin	NIOSH 4, VOL. 1 5502		EPA TO-15
Chlordane Total	NYS DOH APC-34		NIOSH 1501
Dieldrin	NIOSH 2, VOL. 3 S283	Purgeable Aromatics	
	NYS DOH APC-34		
Heptachlor	NIOSH 2, VOL. 5 S287	1,2,4-Trimethylbenzene	EPA TO-14A
Lindane	NIOSH 4, VOL. 1 5502		EPA TO-15
		1,2-Dichlorobenzene	EPA TO-14A
Chlorinated Hydrocarbons			EPA TO-15
1,2,4-Trichlorobenzene	EPA TO-15	1,3,5-Trimethylbenzene	EPA TO-14A
Hexachlorobutadiene	EPA TO-15		EPA TO-15
Hexachloroethane	EPA TO-15	1,3-Dichlorobenzene	EPA TO-14A
Metals III		1,4-Dichlorobenzene	EPA TO-14A
Chromium, Total	NIOSH 7300		EPA TO-15
		Benzene	EPA TO-14A
Polychlorinated Biphenyls			EPA TO-15
PCB-1016	NIOSH 5503	Chlorobenzene	EPA TO-14A
PCB-1221	NIOSH 5503		EPA TO-15
PCB-1232	NIOSH 5503	Ethyl benzene	EPA TO-14A
PCB-1242	NIOSH 5503	THE ANT THE PERSON AND THE	EPA TO-15
PCB-1248	NIOSH 5503	Styrene	EPA TO-14A
PCB-1254	NIOSH 5503		EPA TO-15

Serial No.: 46037





Expires 12:01 AM April 01, 2013 Issued April 1, 2012

### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS

All approved analytes are listed below:

Purgeable Aromatics		Purgeable Halocarbons	
Toluene	EPA TO-14A	Bromomethane	EPA TO-15
	EPA TO-15	Carbon tetrachloride	EPA TO-14A
Total Xylenes	EPA TO-14A		EPA TO-15
	EPA TO-15	Chloroethane	EPA TO-14A
Purgeable Halocarbons			EPA TO-15
1,1,1-Trichloroethane	EPA TO-14A	Chloroform	EPA TO-14A
	EPA TO-15		EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-14A	Chloromethane	EPA TO-14A
	EPA TO-15		EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-14A	cis-1,2-Dichloroethene	EPA TO-14A
	EPA TO-15		EPA TO-15
1,1,2-Trichloroethane	EPA TO-14A	Dichlorodifluoromethane	EPA TO-14A
	EPA TO-15		EPA TO-15
1,1-Dichloroethane	EPA TO-14A	Methylene chloride	EPA TO-14A
	EPA TO-15		EPA TO-15
1,1-Dichloroethene	EPA TO-14A	Tetrachloroethene	EPA TO-14A
	EPA TO-15		EPA TO-15
1,2-Dichloroethane	EPA TO-14A	trans-1,2-Dichloroethene	EPA TO-14A
	EPA TO-15		EPA TO-15
1,2-Dichloropropane	EPA TO-14A	trans-1,3-Dichloropropene	EPA TO-14A
	EPA TO-15		EPA TO-15
Bromodichloromethane	EPA TO-14A	Trichloroethene	EPA TO-14A
	EPA TO-15		EPA TO-15
Bromoform	EPA TO-15	Trichlorofluoromethane	EPA TO-14A
Bromomethane	EPA TO-14A		EPA TO-15

Serial No.: 46037





Expires 12:01 AM April 01, 2013 Issued April 1, 2012

#### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. THOMAS TREUTLEIN ECOTEST LABORATORIES INC 377 SHEFFIELD AVENUE WEST BABYLON, NY 11704 NY Lab Id No: 10320

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS

All approved analytes are listed below:

#### **Purgeable Halocarbons**

Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-14A
	EPA TO-15
Volatile Chlorinated Organics	
Benzyl chloride	EPA TO-14A
	EPA TO-15
Epichlorohydrin	EPA TO-15
Volatile Organics	
1,2-Dichlorotetrafluoroethane	EPA TO-14A
	EPA TO-15
1,3-Butadiene	EPA TO-14A
	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Hexane	EPA TO-15
Methyl lodide	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
Vinyl acetate	EPA TO-15

Serial No.: 46037



### Interim Emergency Wellhead Treatment Aqua New York Seamans Neck Road Water Treatment Facility April 20, 2012 System Prove Out Test Results

### **Microbiological Results**

	Raw	Treated Tank 1	Treated Tank 2	Treated Tank 3
0 Minutes	absent	absent	absent	absent
2 Minutes	absent	absent	absent	absent
5 Minutes	absent	absent	absent	absent
10 Minutes	absent	absent	absent	absent
30 Minutes	absent	absent	absent	absent

All Field Measured Free and Total Chlorine Readings were 0.00 mg/L

### **Principal Organic Comtaminant (POC) Results**

	Raw - 30 Minutes	Treated - 2 Minutes	Treated 30 Minutes
Trichloroethene	2.1 ug/L	<0.5 ug/L	<0.5 ug/L
	All other POC Analytical Parameters are <0.5 ug/L (see full lab repor		

### **Arsenic Results**

	Treated Tank 1	Treated Tank 2	Treated Tank 3
0 Minutes	<0.005 mg/L	<0.005 mg/L	<0.005 mg/L
2 Minutes	<0.005 mg/L	<0.005 mg/L	<0.005 mg/L
5 Minutes	<0.005 mg/L	<0.005 mg/L	<0.005 mg/L
10 Minutes	<0.005 mg/L	<0.005 mg/L	<0.005 mg/L
30 Minutes	<0.005 mg/L	<0.005 mg/L	<0.005 mg/L

### Inorganic (IOC) Results

Analytical Parameters	<b>Unit</b> s	Raw 30 Minutes	Treated 30 Minutes
Antimony as Sb	mg/L	<0.005	<0.005
Arsenic as AS	mg/L	<0.005	<0.005
Barium as BA	mg/L	0.009	0.043
Beryllium as Be	mg/L	<0.001	<0.001
Cadmium as Cd	mg/L	<0.001	<0.001
Chromium as Cr	mg/L	<0.005	<0.005
Copper as Cu	mg/L	0.01	<0.005
Iron as Fe	mg/L	1.7	1.6
Lead as Pb	mg/L	<0.001	0.001
Mercury as Hg	mg/L	<0.0002	<0.0002
Nickel as Ni	mg/L	0.009	0.015
Selenium as Se	mg/L	<0.005	<0.005
Silver as Ag	mg/L	<0.001	<0.001
Thallium as Tl	mg/L	<0.0003	<0.0003
Sodium as Na	mg/L	12	14
Manganese as Mn	mg/L	<0.01	0.05
Zinc as Zn	mg/L	0.06	0.04
Hardness as CaCO3	mg/L	20	26
Ca Hardness as CaCO3	mg/L	12	16
Cyanide as CN	mg/L	<0.02	<0.02
Fluoride as F	mg/L	<0.2	<0.2

Ammonia as N	mg/L	<0.05	<0.05
Chloride as Cl	mg/L	21	16
Sulfate as SO4	mg/L	31	13
Nitrite as N	mg/L	<0.002	<0.002
MBAS as LAS	mg/L	<0.1	<0.1
pH@lab	units	4.4	6.8
Alkalinity tot CaCO3	mg/L	<2	36
Tot Dissolved Solids	mg/L	51	50
Nitrate as N	mg/L	<0.05	<0.05
Turbidity	mg/L	<0.5	8.9
Color	units	<5	<5
Odor	u <b>n</b> its	0	0
Langelier Index	mg/L	-6	-3
Temperature	deg. C	13	13

LAB NO.121457.01

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0920

MATRIX: Water

SAMPLE: Mic Raw-0 Minutes

DATE TIME **ANALYTICAL** ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD 042012 1135 0 T.Coliform, 100 mL Absent 189223

Free Chlorine Resid.

mg/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

DIRECTOR

rn = 7806

NYSDOH ID # 10320

LAB NO.121457.02

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: Mic Raw-2 Minutes

ANALYTICAL PARAMETERS T.Coliform, 100 mL		RESULT Absent	FLAG	DATE TIME OF ANALYSIS 042012 1135	 ANALYTICAL METHOD 189223
Free Chlorine Resid.	mg/L	0	*		

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

LAB NO.121457.03

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0925

MATRIX: Water

SAMPLE: Mic Raw-5 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223 Free Chlorine Resid. 0 mg/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

rn = 7808

NYSDOH ID # 10320

LAB NO.121457.04

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0930

MATRIX: Water SAMPLE: Mic Raw-10 Minutes

ANALYTICAL PARAMETERS T.Coliform, 100 mL	UNITS	RESULT Absent	DATE TIME FLAG OF ANALYSIS 042012 1135	ANALYTICAL METHOD 189223
Free Chlorine Resid.	mg/L	0	*	

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

LAB NO.121457.05

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

Don Conger ATTN:

PO#:

SOURCE OF SAMPLE: Agua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: Mic Raw-30 Minutes

DATE TIME **ANALYTICAL** UNITS RESULT FLAG OF ANALYSIS LRL ANALYTICAL PARAMETERS METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223 Free Chlorine Resid. mg/L

cc:

LRL≈laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

LAB NO.121457.06

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

Don Conger ATTN:

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0920

MATRIX: Water

SAMPLE: Mic Tank 1-0 Minutes

DATE TIME ANALYTICAL UNITS RESULT FLAG OF ANALYSIS LRL ANALYTICAL PARAMETERS METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223

Free Chlorine Resid.

mg/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

LAB NO.121457.07

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: Mic Tank 1-2 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223 Free Chlorine Resid. mg/L 0

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

rn = 7812

NYSDOH ID # 10320

LAB NO.121457.08

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0925

MATRIX: Water

SAMPLE: Mic Tank 1-5 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223

Free Chlorine Resid.

mg/L 0

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

DIRECTOR

NYSDOH ID # 10320

m = 7813

LAB NO.121457.09

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0930

MATRIX: Water

SAMPLE: Mic Tank 1-10 Minutes

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL UNITS RESULT ANALYTICAL PARAMETERS METHOD T.Coliform, 100 mL 042012 1135 0 189223 Absent Free Chlorine Resid. mg/L 0

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

LAB NO.121457.10

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: Mic Tank 1-30 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD T.Collform, 100 mL Absent 042012 1135 0 189223 Free Chlorine Resid. 0 mq/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

LAB NO.121457.11

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0920

MATRIX: Water

SAMPLE: Mic Tank 2-0 Minutes

DATE TIME **ANALYTICAL** UNITS RESULT ANALYTICAL PARAMETERS FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL 042012 1135 0 Absent 189223

Free Chlorine Resid.

Ω mg/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

rn = 7816

NYSDOH ID # 10320

LAB NO.121457.12

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: Mic Tank 2-2 Minutes

ANALYTICAL PARAMETERS T.Coliform, 100 mL	UNITS	RESULT Absent	FLAG	DATE TIME OF ANALYSIS 042012 1135	 ANALYTICAL METHOD 189223
Free Chlorine Resid.	mg/L	0	*		

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320 rn = 7817

LAB NO.121457.13

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0925

MATRIX: Water

SAMPLE: Mic Tank 2-5 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223

Free Chlorine Resid.

mg/L 0

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

rn = 7818

LAB NO.121457.14

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0930

MATRIX: Water SAMPLE: Mic Tank 2-10 Minutes

ANALYTICAL PARAMETERS T.Coliform, 100 mL	UNITS	RESULT Absent	DATE TIME FLAG OF ANALYSIS 042012 1135	LRL 0	ANALYTICAL METHOD 189223
Free Chlorine Resid.	mg/L	0	*		

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

rn = 7819

LAB NO. 121457. 15

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: Mic Tank 2-30 Minutes

DATE TIME ANALYTICAL UNITS RESULT ANALYTICAL PARAMETERS FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223

Free Chlorine Resid.

mg/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

rn = 7820

LAB NO.121457.16

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Agua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0920

MATRIX: Water

SAMPLE: Mic Tank 3-0 Minutes

DATE TIME ANALYTICAL UNITS RESULT FLAG OF ANALYSIS LRL ANALYTICAL PARAMETERS METHOD 042012 1135 189223 T.Coliform, 100 mL Absent 0

Free Chlorine Resid.

mg/L 0

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

rn = 7821

LAB NO.121457.17

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Agua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: Mic Tank 3-2 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL 042012 1135 0 189223 Absent Free Chlorine Resid. 0 mg/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

rn = 7822

LAB NO.121457.18

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Agua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0925

MATRIX: Water

SAMPLE: Mic Tank 3-5 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS FLAG OF ANALYSIS LRL UNITS RESULT METHOD T.Coliform, 100 mL Absent 042012 1135 189223 0

Free Chlorine Resid.

mg/L 0

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

LAB NO.121457.19

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0930

MATRIX: Water

SAMPLE: Mic Tank 3-10 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD / T.Coliform, 100 mL Absent 042012 1135 0 189223 Free Chlorine Resid.

0 mg/L

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

NYSDOH ID # 10320

rn = 7824

LAB NO.121457.20

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: Mic Tank 3-30 Minutes

DATE TIME ANALYTICAL ANALYTICAL PARAMETERS UNITS RESULT FLAG OF ANALYSIS LRL METHOD T.Coliform, 100 mL Absent 042012 1135 0 189223

Free Chlorine Resid.

0 mg/L

cc: 🐰

LRL=laboratory Reporting Limit

REMARKS: \* Measured in the field by client.

Total Coliform Bacteria is within NY State and Federal

limits for potable water.

rn = 7825

LAB NO.121457.21

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water SAMPLE: POC Raw-30 Minutes

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlorodifluoromethane	ug/L	< 0.5	042012	0.5	EPA524.2
Chloromethane	ug/L	< 0.5	042012	0.5	EPA524.2
Vinyl Chloride	ug/L	< 0.5	042012	0.5	EPA524.2
Bromomethane	ug/L	< 0.5	042012	0.5	EPA524.2
Chloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
Trichlorofluoromethane	ug/L	< 0.5	042012	0.5	EPA524.2
1,1 Dichloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
Methylene Chloride	ug/L	< 0.5	042012	0.5	EPA524.2
ter.ButylMethylEther	ug/L	< 0.5	042012	0.5	EPA524.2
t-1,2-Dichloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
1,1 Dichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
2,2-Dichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
c-1,2-Dichloroethene	ug/L	< 0.5	<b>0420</b> 12	0.5	EPA524.2
Chloroform	ug/L	< 0.5	042012	0.5	EPA524.2
Bromochloromethane	ug/L	< 0.5	042012	0.5	EPA524.2
111 Trichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
1,1-Dichloropropene	ug/L	< 0.5	042012	0.5	EPA524.2
Carbon Tetrachloride	ug/L	< 0.5	042012	0.5	EPA524.2
1,2 Dichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
Benzene	ug/L	< 0.5	042012	0.5	EPA524.2
Trichloroethene	ug/L	2.1	042012	0.5	EPA524.2
1,2 Dichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
Bromodichloromethane	ug/L	< 0.5	042012	0.5	EPA524.2
Dibromomethane	ug/L	< 0.5	042012	0.5	EPA524.2
c-1,3Dichloropropene	ug/L	< 0.5	042012	0.5	EPA524.2
cc:					

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

DIRECTOR

Page 1 of

NYSDOH ID # 10320

rn = 7826

LAB NO.121457.21

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water SAMPLE: POC Raw-30 Minutes

			DATE TIME		ANALYTICAL
ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG OF ANALYSIS	LRL	METHOD
Toluene	ug/L	< 0.5	042012	0.5	EPA524.2
t-1,3Dichloropropene	ug/L	< 0.5	042012	0.5	EPA524.2
112 Trichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
1,3-Dichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
Tetrachloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
Chlorodibromomethane	ug/L	< 0.5	042012	0.5	EPA524.2
Chlorobenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1112Tetrachloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
Ethyl Benzene	ug/L	< 0.5	042012	0.5	EPA524.2
m + p Xylene	ug/L	< 1	042012	1	EPA524.2
o Xylene	ug/L	< 0.5	042012	0.5	EPA524.2
Styrene	ug/L	< 0.5	042012	0.5	EPA524.2
Bromoform	ug/L	< 0.5	042012	0.5	EPA524.2
Isopropylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1122Tetrachloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
123-Trichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
n-Propylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
Bromobenzene	ug/L	< 0.5	042012	0.5	EPA524.2
135-Trimethylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
2-Chlorotoluene	ug/L	< 0.5	042012	0.5	EPA524.2
4-Chlorotoluene	ug/L	< 0.5	042012	0.5	EPA524.2
tert-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
124-Trimethylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
sec-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
p-Isopropyltoluene	ug/L	< 0.5	042012	0.5	EPA524.2
cc:					

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

DIRECTOR

Page 2 of 3

LAB NO.121457.21

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: POC Raw-30 Minutes

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
1,4 Dichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
n-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1,2 Dichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
124-Trichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
Hexachlorobutadiene	ug/L	< 0.5	042012	0.5	EPA524.2
123-Trichlorobenzene	ug/L	< 0.5	042012	0.5	EPA524.2

cc:

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

rn = 7828

LAB NO.121457.22

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: POC Treated-2 Minutes

			DATE TIME		ANALYTICAL
ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG OF ANALYSIS	LRL	METHOD
Dichlorodifluoromethane	ug/L	< 0.5	042012	0.5	EPA524.2
Chloromethane	ug/L	< 0.5	042012	0.5	EPA524.2
Vinyl Chloride	ug/L	< 0.5	042012	0.5	EPA524.2
Bromomethane	ug/L	< 0.5	042012	0.5	EPA524.2
Chloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
Trichlorofluoromethane	ug/L	< 0.5	042012	0.5	EPA524.2
1,1 Dichloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
Methylene Chloride	ug/L	< 0.5	042012	0.5	EPA524.2
ter.ButylMethylEther	ug/L	< 0.5	042012	0.5	EPA524.2
t-1,2-Dichloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
1,1 Dichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
2,2-Dichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
c-1,2-Dichloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
Chloroform	ug/L	< 0.5	042012	0.5	EPA524.2
Bromochloromethane	ug/L	< 0.5	042012	0.5	EPA524.2
111 Trichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
1,1-Dichloropropene	ug/L	< 0.5	042012	0.5	EPA524.2
Carbon Tetrachloride	ug/L	< 0.5	042012	0.5	EPA524.2
1,2 Dichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
Benzene	ug/L	< 0.5	042012	0.5	EPA524.2
Trichloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
1,2 Dichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
Bromodichloromethane	ug/L	< 0.5	042012	0.5	EPA524.2
Dibromomethane	ug/L	< 0.5	042012	0.5	EPA524.2
c-1,3Dichloropropene	ug/L	< 0.5	042012	0.5	EPA524.2
cc:					

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

LAB NO.121457.22

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: POC Treated-2 Minutes

			DATE TIME		ANALYTICAL
ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG OF ANALYSIS	LRL	METHOD
Toluene	ug/L	< 0.5	042012	0.5	EPA524.2
t-1,3Dichloropropene	ug/L	< 0.5	042012	0.5	EPA524.2
112 Trichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
1,3-Dichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
Tetrachloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
Chlorodibromomethane	ug/L	< 0.5	042012	0.5	EPA524.2
Chlorobenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1112Tetrachloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
Ethyl Benzene	ug/L	< 0.5	042012	0.5	EPA524.2
m + p Xylene	ug/L	< 1	042012	1	EPA524.2
o Xylene	ug/L	< 0.5	042012	0.5	EPA524.2
Styrene	ug/L	< 0.5	042012	0.5	EPA524.2
Bromoform	ug/L	< 0.5	042012	0.5	EPA524.2
Isopropylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1122Tetrachloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
123-Trichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
n-Propylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
Bromobenzene	ug/L	< 0.5	042012	0.5	EPA524.2
135-Trimethylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
2-Chlorotoluene	ug/L	< 0.5	042012	0.5	EPA524.2
4-Chlorotoluene	ug/L	< 0.5	042012	0.5	EPA524.2
tert-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
124-Trimethylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
sec-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
p-Isopropyltoluene	ug/L	< 0.5	042012	0.5	EPA524.2
cc: ,					

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

NYSDOH ID # 10320

rn = 7830

LAB NO.121457.22

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: POC Treated-2 Minutes

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
1,4 Dichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
n-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1,2 Dichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
124-Trichlorobenzene (v)	ug/L	< 0.5	042012	0.5	EPA524.2
Hexachlorobutadiene	ug/L	< 0.5	042012	0.5	EPA524.2
123-Trichlorobenzene	ug/L	< 0.5	042012	0.5	EPA524.2

cc: ,

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

DIRECTOR

Page 3

NYSDOH ID # 10320

rn = 7831

LAB NO.121457.23

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

SAMPLE: POC Treated-30 Minutes MATRIX: Water

		(2)		
		DATE TIME		ANALYTICAL
UNITS	RESULT	FLAG OF ANALYSIS	LRL	METHOD
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
ug/L	< 0.5	042012		EPA524.2
ug/L	< 0.5	042012	0.5	EPA524.2
	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	ug/L < 0.5	UNITS RESULT  ug/L < 0.5  ug/L	UNITS RESULT  ug/L < 0.5  ug/L < 0.5

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

LAB NO.121457.23

04/23/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water SAMPLE: POC Treated-30 Minutes

			DATE TIME		ANALYTICAL
ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG OF ANALYSIS	LRL	METHOD
Toluene	ug/L	< 0.5	042012	0.5	EPA524.2
t-1,3Dichloropropene	ug/L	< 0.5	042012	0.5	EPA524.2
112 Trichloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
1,3-Dichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
Tetrachloroethene	ug/L	< 0.5	042012	0.5	EPA524.2
Chlorodibromomethane	ug/L	< 0.5	042012	0.5	EPA524.2
Chlorobenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1112Tetrachloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
Ethyl Benzene	ug/L	< 0.5	042012	0.5	EPA524.2
m + p Xylene	ug/L	< 1	042012	1	EPA524.2
o Xylene	ug/L	< 0.5	042012	0.5	EPA524.2
Styrene	ug/L	< 0.5	042012	0.5	EPA524.2
Bromoform	ug/L	< 0.5	042012	0.5	EPA524.2
Isopropylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
1122Tetrachloroethane	ug/L	< 0.5	042012	0.5	EPA524.2
123-Trichloropropane	ug/L	< 0.5	042012	0.5	EPA524.2
n-Propylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
Bromobenzene	ug/L	< 0.5	042012	0.5	EPA524.2
135-Trimethylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
2-Chlorotoluene	ug/L	< 0.5	042012	0.5	EPA524.2
4-Chlorotoluene	ug/L	< 0.5	042012	0.5	EPA524.2
tert-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
124-Trimethylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
sec-Butylbenzene	ug/L	< 0.5	042012	0.5	EPA524.2
p-Isopropyltoluene	ug/L	< 0.5	042012	0.5	EPA524.2
cc:					

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

NYSDOH ID # 10320

m = 7833

LAB NO.121457.23

04/23/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY:

Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: POC Treated-30 Minutes

				DATE TIME		ANALYTICAL
ANALYTICAL PARAMETERS	UNITS	RESULT		FLAG OF ANALYSIS	LRL	METHOD
1,3 Dichlorobenzene (v)	ug/L	< 0.5		042012	0.5	EPA524.2
1,4 Dichlorobenzene (v)	ug/L	< 0.5	8	042012	0.5	EPA524.2
n-Buty1benzene	ug/L	< 0.5		042012	0.5	EPA524.2
1,2 Dichlorobenzene (v)	ug/L	< 0.5		042012	0.5	EPA524.2
124-Trichlorobenzene (v)	ug/L	< 0.5		042012	0.5	EPA524.2
Hexachlorobutadiene	ug/L	< 0.5		. 042012	0.5	EPA524.2
123-Trichlorobenzene	ug/L	< 0.5		042012	0.5	EPA524.2

cc:

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements Principle Organic Compounds,

POC's.

All values are within NY State and Federal limits for

potable water.

DIRECTOR

NYSDOH ID # 10320

rn = 7834

LAB NO.121457.24

04/25/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water SAMPLE: IOC Raw-30 Minutes

				DATE TIME	A	NALYTICAL
ANALYTICAL PARAMETERS	UNITS	S RESULT	FLAG	OF ANALYSIS	LRL M	ETHOD
Antimony as Sb	mg/L	< 0.005		042412	0.005	EPA200.5
Arsenic as As	mg/L	< 0.005		042412	0.005	EPA200.5
Barium as Ba	mg/L	0.009		042412	0.001	EPA200.5
Beryllium as Be	mg/L	< 0.001		042412	0.001	EPA200.5
Cadmium as Cd	mg/L	< 0.001		042412	0.001	EPA200.5
Chromium as Cr	mg/L	< 0.005		042412	0.005	EPA200.5
Copper as Cu	mg/L	0.01		042412	0.005	EPA200.5
Iron as Fe	mg/L	1.7		042412	0.01	EPA200.5
Lead as Pb	mg/L	< 0.001		042412	0.001	EPA200.5
Mercury as Hg	mg/L	< 0.0002		042312		EPA245.1
Nickel as Ni	mg/L	0.009		042412	0.005	EPA200.5
Selenium as Se	mg/L	< 0.005		042412	0.005	EPA200.5
Silver as Ag	mg/L	< 0.001		042412	0.001	EPA200.5
Thallium as Ti	mg/L	< 0.0003	*	042412	0.0001	
Sodium as Na	mg/L	12		042412	1	EPA200.5
Manganese as Mn	mg/L	< 0.01		042412	0.01	EPA200.5
Zinc as Zn	mg/L	0.06		042412	0.01	EPA200.5
Hardness as CaCO3	mg/L	20		042412	0.035	EPA200.5
Ca Hardness as CaCO3	mg/L	12		042412	0.01	EPA200.5
Cyanide as CN	mg/L	< 0.02		042012	0.02	EPA335.4
Fluoride as F	mg/L	< 0.2		042312	0	S184500FC
Ammonta as N	mg/L	< 0.05		042012	0.05	S204500NH3D
Chloride as Cl	mg/L	21		042012	2	S184500C1B
Sulfate as SO4	mg/L	31		042312	5	ASD516 02

cc:

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements IOC's.

\* Analysis was performed by NYID#10478.

DIRECTOR

rn = 7835

NYSDOH ID # 10320

LAB NO.121457.24

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12 TIME COL'D:0950

MATRIX: Water SAMPLE: IOC Raw-30 Minutes

		DATE TIME	ANALYTICAL
ANALYTICAL PARAMETERS	UNITS RESULT	FLAG OF ANALYSIS	LRL METHOD
Nitrite as N	mg/L < 0.002	042012 1345	0.002 S184500NO2B
MBAS as LAS	mg/L < 0.1	042012 1200	0.1 EPA425.1
pH@lab units	4.4	042012 1306	0.1 S184500HB
Alkalinity tot CaCo3	mg/L < 2	042012	2 S182320B
Tot Dissolved Solids	mg/L 51	Q42012	10 S182540C
Nitrate as N	mg/L < 0.05	042012	0.05 EPA353.2
Turbidity NTU	mg/L < 0.5	042012 1720	0.5 EPA180.1
Color units	< 5	042012 1121	5 EPA2120B
Odor units	0.0	042012 1119	0 EPA140.1
Langelier Index	mg/L -6	042412	0-6 S18-2330
Temperature, deg.C	13	*	

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Estimated.

Nassau County Requirements IOC's.

DIRECTOR

rn = 7836

NYSDOH ID # 10320

Page 2 of 2

LAB NO.121457.25

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE: COLLECTED BY: Client DATE COL'D:04/20/12 RECEIVE

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: IOC Treated-30 Minutes

				DATE TIME	A	NALYTICAL
ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	OF ANALYSIS	LRL M	ETHOD
Antimony as Sb	mg/L	< 0.005		042412	0.005	EPA200.5
Arsenic as As	mg/L	< 0.005		042412	0.005	EPA200.5
Barium as Ba	mg/L	0.043		042412	0.001	EPA200.5
Beryllium as Be	mg/L	< 0.001		042412	0.001	EPA200.5
Cadmium as Cd	mg/L	< 0.001		042412	0.001	EPA200.5
Chromium as Cr	mg/L	< 0.005		042412	0.005	EPA200.5
Copper as Cu	mg/L	< 0.005		042412	0.005	EPA200.5
Iron as Fe	mg/L	1.6		042412	0.01	EPA200.5
Lead as Pb	mg/L	0.001		042412	0.001	EPA200.5
Mercury as Hg	mg/L	< 0.0002		042312	0.0002	EPA245.1
Nickel as Ni	mg/L	0.015		042412	0.005	EPA200.5
Selenium as Se	mg/L	< 0.005		042412	0.005	EPA200.5
Silver as Ag	mg/L	< 0.001		042412	0.001	EPA200.5
Thallium as Tl	mg/L	< 0.0003	*	042412	0.0001	EPA200.8
Sodium as Na	mg/L	14		042412	1	EPA200.5
Manganese as Mn	mg/L	0.05		042412	0.01	EPA200.5
Zinc as Zn	mg/L	0.04		042412	0.01	EPA200.5
Hardness as CaCO3	mg/L	26		042412	0.035	EPA200.5
Ca Hardness as CaCO3	mg/L	16		042412	0.01	EPA200.5
Cyanide as CN	mg/L	< 0.02		042012	0.02	EPA335.4
Fluoride as F	mg/L	< 0.2		042312	0	S184500FC
Ammonia as N	mg/L	< 0.05		042012	0.05	S204500NH3D
Chloride as Cl	mg/L	16		042012	2	S184500C1B
Sulfate as SO4	mg/L	13		042312	5	ASD516 02

cc:

LRL=laboratory Reporting Limit

REMARKS: Nassau County Requirements IOC's.

\* Analysis was performed by NYID#10478.

DIRECTOR\_

m = 7837

NYSDOH ID # 10320

LAB NO.121457.25

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

SAMPLE: IOC Treated-30 Minutes MATRIX: Water

		DATE TIME	ANALYTICAL
ANALYTICAL PARAMETERS	UNITS RESULT	FLAG OF ANALYSIS	LRL METHOD
Nitrite as N	mg/L < 0.002	042012 1345	0.002 S184500NO2B
MBAS as LAS	mg/L < 0.1	042012 1200	0.1 EPA425.1
pH@lab units	6.8	042012 1309	0.1 S184500HB
Alkalinity tot CaCo3	mg/L 36	042012	2 S182320B
Tot Dissolved Solids	mg/L 50	042012	10 S182540C
Nitrate as N	mg/L < 0.05	042012	0.05 EPA353.2
Turbidity NTU	mg/L 8.9	042012 1720	0.5 EPA180.1
Color units	< 5	042012 1122	5 EPA2120B
Odor units	0.0	042012 1119	0 EPA140.1
Langelier Index	mg/L -3	042412	0-6 S18-2330
Temperature, deg.C	13	*	

cc:

LRL=laboratory Reporting Limit

REMARKS: \* Estimated.

Nassau County Requirements 10C's.

DIRECTOR\_

rn = 7838

NYSDOH 1D # 10320

Page 2 of 2

LAB NO.121458.01

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0920

MATRIX: Water

SAMPLE: Arsenic Tank 1-0 Minutes

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD

ANALYTICAL PARAMETERS Arsentc as As

UNITS RESULT mg/L < 0.005

042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

m = 7839

NYSDOH ID # 10320

LAB NO.121458.02

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: Arsenic Tank 1-2 Minutes

ANALYTICAL PARAMETERS Arsenic as As

UNITS RESULT

mg/L < 0.005

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD 042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

rn = 7840

NYSDOH ID # 10320

LAB NO.121458.03

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12 .

TIME COL'D:0925

MATRIX: Water

SAMPLE: Arsenic Tank 1-5 Minutes

ANALYTICAL PARAMETERS Arsenic as As

UNITS RESULT

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD

mg/L < 0.005

042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR\_

rn = 7841

NYSDOH ID # 10320

Page 1 of 1

Thomas Powell

LAB NO.121458.04

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0930

MATRIX: Water

SAMPLE: Arsenic Tank 1-10 Minutes

ANALYTICAL PARAMETERS Arsenic as As

UNITS RESULT

mg/L < 0.005

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD 042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

rn = 7842

NYSDOH ID # 10320

LAB NO.121458.05

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: Arsenic Tank 1-30 Minutes

ANALYTICAL PARAMETERS

UNITS RESULT

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD

Arsenic as As

mg/L < 0.005

042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR\_

m = 7843

NYSDOH ID # 10320

LAB NO.121458.06

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0920

MATRIX: Water

SAMPLE: Arsenic Tank 2-0 Minutes

ANALYTICAL PARAMETERS

UNITS RESULT

Arsenic as As

mg/L < 0.005

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD 042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

rn = 7844

NYSDOH ID # 10320

LAB NO.121458.07

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12 TIME COL'D:0922

MATRIX: Water

SAMPLE: Arsenic Tank 2-2 Minutes

DATE TIME

ANALYTICAL

ANALYTICAL PARAMETERS

UNITS RESULT

FLAG OF ANALYSIS LRL METHOD

Arsenic as As

mg/L < 0.005

042412

0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

Thomas Powell

Page 1 of 1

rn = 7845

LAB NO.121458.08

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0925

MATRIX: Water

SAMPLE: Arsenic Tank 2-5 Minutes

ANALYTICAL PARAMETERS

UNITS RESULT

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD

Arsenic as As

mg/L < 0.005

042412 0.005 EPA200.5

cc;

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

rn = 7846

NYSDOH 1D # 10320

LAB NO.121458.10

04/25/12

CH2M H111

999 South Oyster Bay Road Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

MATRIX: Water

TIME COL'D:0950 SAMPLE: Arsenic Tank 2-30 Minutes

ANALYTICAL PARAMETERS Arsenic as As

UNITS RESULT

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD

mg/L < 0.005

042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS:

rn = 7848

NYSDOH ID # 10320

DIRECTOR\_

LAB NO.121458.10

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D: 0950

MATRIX: Water

SAMPLE: Arsenic Tank 2-30 Minutes

ANALYTICAL PARAMETERS

UNITS RESULT

DATE TIME

ANALYTICAL

Arsenic as As mg/L < 0.005

FLAG OF ANALYSIS LRL METHOD
042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR MAN

rn = 7848

NYSDOH ID # 10320

Page 1 of 1

Thomas Powel

LAB NO.121458.11

04/25/12

CH2M Hill

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0920

MATRIX: Water

SAMPLE: Arsenic Tank 3-0 Minutes

ANALYTICAL PARAMETERS Arsenic as As

UNITS RESULT

DATE TIME FLAG OF ANALYSIS LRL METHOD

ANALYTICAL

mg/L < 0.005

042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

rn = 7849

LAB NO.121458.12

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0922

MATRIX: Water

SAMPLE: Arsenic Tank 3-2 Minutes

ANALYTICAL PARAMETERS

UNITS RESULT

DATE TIME

ANALYTICAL

Arsenic as As

mg/L < 0.005

FLAG OF ANALYSIS LRL METHOD

042412

0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

rn = 7850

NYSDOH ID # 10320

LAB NO.121458.13

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0925

MATRIX: Water

SAMPLE: Arsenic Tank 3-5 Minutes

ANALYTICAL PARAMETERS

UNITS RESULT

DATE TIME

ANALYTICAL

Arsenic as As

mg/L < 0.005

042412

FLAG OF ANALYSIS LRL METHOD

0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR

rn = 7851

NYSDOH ID # 10320

LAB NO.121458.14

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0930

MATRIX: Water

SAMPLE: Arsenic Tank 3-10 Minutes

ANALYTICAL PARAMETERS Arsenic as As

UNITS RESULT

DATE TIME ANALYTICAL FLAG OF ANALYSIS LRL METHOD

mg/L < 0.005

042412 0.005 EPA200.5

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

Thomas Powell

DIRECTOR MILEN

rn = 7852

NYSDOH ID # 10320

LAB NO.121458.15

04/25/12

CH2M H111

999 South Oyster Bay Road

Bethpage, NY 11714

ATTN: Don Conger

PO#:

SOURCE OF SAMPLE: Aqua NY Seamans Neck Road-GAC, #420233 SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/20/12 RECEIVED:04/20/12

TIME COL'D:0950

MATRIX: Water

SAMPLE: Arsenic Tank 3-30 Minutes

ANALYTICAL PARAMETERS

DATE TIME

ANALYTICAL

042412 0.005 EPA200.5

UNITS RESULT FLAG OF ANALYSIS LRL METHOD mg/L < 0.005 Arsenic as As

cc:

LRL=laboratory Reporting Limit

REMARKS: Arsenic concentration is within NY State and Federal limits for potable water.

DIRECTOR\_

rn = 7853

NYSDOH ID # 10320

2

CHAIN OF CUSTODY RECORD

1092

CO EST LABORATORIES, INC. • ENVIRONMENTAL TESTING 377 Sheffield Avenue, North Babylon, New York 11703 (631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

7.00G CLALD = U DATE/TIME | SEAL INTACT? | Received by: (Signature) DATE/TIME | SEAL INTACT? | Received by: (Signature) REMARKS TESTS HEQUIRED 1247 YES NO NA Representing: Coliler4 Dalinpak aled Accelerated Turnaround (If Required) TYPE & NUMBER OF CONTAINERS/ \£2/h OC PAG TVpe Relinquished by: (Signature) Relinquished by: (Signature) Representing: Representing. 4/24/1/5 | YES NO CA | REPRESENTING COLO ) DATE/TIME SEAL INTACT? Redeived by: (Signature) DATE/TIME | SEAL INTACT? | ReCaived by: (Signature) YES NO NA Representing: B Phone: 610-764-8681 FAX: 215-640-9379 SOUND TO THE TANK OF THE PARTY lank 2-30' lank 2-10° Scamans Neck Rosa Address: 999 South Oystir Bay Road lank 2 -2" 01 0-1 3 Person receiving report: Den Congra Rav 10' 9:30 Mic Row-30 Raw-0' Tank lank ONK Kethnage, NY 11714 Park Sampled by: Den Congen M.c 19 9:20 Mic 9:25 Mic 19:30 Mic Mic 419.50 Mic 9:30 Mic 4:30 Mic 120 9:2 Mic 9:2 Mic 9:20 Mir 9:5 Mic Relinquished by: (Signature) Client: CH2M H'II 4:30 9:30 4:22 400 425 Job No : 420233 MATRIX COLLECTED (SOUR Water etc.) DATE TIME Representing: CHU Source: AGM -NY Representing: Water

CHAIN OF CUSTODY RECORD

ECO | EST LABORATORIES, INC. • ENVIRONMENTAL TESTING 377 Sheffield Avenue, North Babylon, New York 11703 (631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

TYPEをNUMBER OF CONTRINERS/
pan (pan)
4/23 Colilert - 246 Mrs= 0 or
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+ 1
アナー
11/01
11 10C - EPA 524,2 -24 h.
1 1 VOC - EPA 524,2 - 24h.
- EPA 524,2 -
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J.O.7
Relinquished by: (Signature)   DATE/TIME   SEAL INTACT?   Received by: (Signature)
YES NO NA Representing:
Relinquished by: (Signature) DATE/TIME SEAL INTACT? Received by: (Signature)
DATE/TIME  DATE/TIME  DATE/TIME

CHAIN OF CUSTODY RECORD

CO | EST LABORATORIES, INC. • ENVIRONMENTAL TESTING 377 Sheffield Avenue, North Babylon, New York 11703 (631) 422-5777 • FAX (631) 422-5770 • Emeli: ecotestlab@aol.com

20.0 DATE/TIME | SEAL INTACT? | Received by: (Signature) DATE/TIME | SEAL INTACT? | Received by: (Signature) -24 12/458 45- 700E REMARKS TESTS REQUIRED YES NO NA Representing: Arsmic - EPA 200.7 VEG 110 ... Dale Required Accelerated Juminground 4/23 Arsonic (II Required) TYPE & NUMBER OF CONTOURS OC PAS TYPE 1/23 Relinquished by: (Signature) Relinquished by: (Signature) Representing: Representing SESINOVINOS SO SESION TRADE 1/20 11/5 YES NO MA Progression time CO-PCM DATE/TIME | SEAL INTACT? | Received by: (Signature) DATE/TIME | SEAL INTACT? | Rebeived by: (Signature) YES NO NA Representing: Phone: 610-764-8681 FAX: 215-640-9379 Tank 3-30' 43-10 3-5 Road ا ا -30, Tonk 2-30 3-2 1-10 lank 3-0 7 0 0 Tank 2-10 935 Averaic Took 2-5 9:20 Asonic Took 2 - 2 SOUTOBE ARWA-NY STABLES Need Road Den Conges 9:20 Arsenic Took 2 Address: 999 South Oyster Bay 9:22 Aronic Tack 9:30 Aranic Tool 4/20 9:20 Arsenic Took 9:22 Arstaic Tank 9:25 Arsonic Took 9:50 Arsenic Tank Beth. DAGE, NY 11714 19:30 Accoric Water 1470 9:30 Arearic 9:25 Asmic A:20 Asenic 4:30 Asmis 9:30 Acenic Sampled by. Pon Conger Relinquished by: (Signature) Relinquished by: (Signature) 420233 Person receiving report: Client: CHZ# H:// Representing: MATTHEY (See Weller, etc.) ~ater Job No.:



### TRANSMITTAL OF CONTRACTOR'S SUBMITTAL

(ATTACH TO EACH SUBMITTAL)

DATE: 05/14	./2012
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	-						DAT	TE: <u>05/ 14/ 2012</u>	-	
To:		NAVFAC MIDLANT			From	: Don Co	Don Conger, PE, AGVIQ-CH2M HILL			L
	Mr. C	Greg Pearman				(Contractor)		)		
	grego	regory.pearman@marines.usmc.mil				Don.Co	Don.Conger@ch2m.com			
CC:	christopher.shukis@navy.mil				CC:	Jim.Nio	Jim.Nicotri@ch2m.com			
	Lora.	Fly@navy.mil				smatne	smatney@tikigaq.com			
						Amy.W	Amy.Wolff@ch2m.com			
					I					
		L INFORMATION	ON							
Subm	nittal N	0.:	057	400513-09 Pr	essure	and Valve	Test	t Results		
		New Subn	nittal					Resubmi	ttal	
Project: Interim Emergency Wellhead Treatment Aqua- Facility					ent Aqua-NY V	Vater Treatr	nent			
Projec	ct No.:		N62470-08-D-1006, TO No.: WE23							
Speci	pecification Section No.: 40 05 13									
Date	Date of Submittal: 5/14/2012									
SUBI	MITTA	L TYPE:						I		
☐ Sł	nop Dra	wing		Sample					ional	
M	Iaterial	Data		☐ Propose	d Subst	titution		Other		
The fo	llowing	g items are hereb	y sub	mitted:						
Num	ber of	Description	of Ite	em Submitted		Spec. and		Drawing or Brochure	Contains to Cor	
	pies	(Type, Size, N				Para. No.		Number	No	Yes
1	Pressure and Valve Testing Report					40 05 13, 1.4				
The fo	llowing	g information ab	out th	e submissior	ı is her	eby provid	ed:			
Press	ure and	Valve Testing								
Per t	he requ	uirements of the	con	tract, we are	hereb	y submitti	ng	the results of	the Pipe L	eakage,
	-	157.1				•	_		-	_

Hydrostatic, and Valve Tests. All tests were performed in accordance with the specifications, and all tests passed. This is an informational submission so government approval is not required.

CONTRACTOR hereby certifies that (i) CONTRACTOR has complied with the requirements of Contract Documents in preparation, review, and submission of designated Submittal and (ii) the Submittal is complete and in accordance with the Contract Documents and requirements of laws and regulations and governing agencies.

CONTRACTOR (Authorized Signature)



## **Submittal Review Comments Checklist**

	7	30						
PROJEC	T DATA							
Project N	ct Name: Interim Emergency Wellhead Treatment Aqua-NY		Client:			Naval Facilities Engineering Command, Mid-Atlantic		
Project N	No.: N62470-08-D-1006 TO No.: WE23		Project Location:			Seamans Neck Road, Levittown, New York		
Inspection	on Date:	5/14	/2012	Inspector:		I	Don Conger, CH2M HILL	
Report N	Jo:	057		Contr	actor:	1	AGVIQ-CH2M HILL	
SUBMIT	TAL DE	TAILS	3					
Submitta	al No.:		057 400513-09 Pressur	e and V	alve Test R	esults		
Specifica	ition Secti	on:	40 05 13		Reviewer	Name:	Don Conger, CH2M HILL	
Descript	ion:		Pressure and Valve Te	ests	Page:		40 05 13 - 5	
Submitta	al Type:		Shop Drawing	S	ample			
SUBMIT	. —	mittal r	se and Resubmit required)		5. Not subj	ect to re	,	
No.			Comment			Relat	ed Spec Paragraph/Drawing	



### Hydrostatic, Pipe Leakage, and Valve Testing

## **Testing Results**

# Installation of Interim Emergency Treatment Liquid-Phase Granular Activated Carbon Units

# Aqua New York, Inc., Seamans Neck Road Water Plant, NWIRP Bethpage, New York

## Contract N62470-08-D-1006, Task Order WE23

DATE: May 14, 2012

This memo is being provided as a record of the Hydrostatic, Pipe Leakage, and Valve Testing that was performed for the above referenced project.

On Wednesday, April 4, 2012, Hydrostatic and Pipe Leakage Testing was performed on the underground water piping per the Specifications Section 33 11 00, 3.2.2. The piping was capped, filled with clean water, and tested to 200 psi. The pipe, fittings, and valves held the pressure for over 2 hours, per the specifications.

On Friday, April 6, 2011, Hydrostatic and Pipe Leakage Testing was performed on the entire GAC system, including the vessels, piping, fittings, and valves. The testing was performed per the Specifications Section 40 05 13, 3.14; and as approved in the revised testing procedure in RFI-04 (see attached). The entire system was filled with clean water, and tested at 100 psi. The entire system held the pressure for over 2 hours, per the specifications.

Valve testing on the GAC system was performed throughout the week of April 16-20, 2012. During this time backwashing, system disinfection, and flushing was performed. Each of the system valves were turned several times as the tanks were filled, backwashed, emptied, and flushed. Valve testing was performed in accordance with Specification Section 40 05 13, 3.14.4. Each valve opened and closed smoothly both with and without operating pressure. Each of the 8-inch butterfly valves with hand wheels required 14 turns from full open to full close, as per the manufacturers literature. The remaining 3-inch butterfly valves were supplied with quarter turn handles that worked as required.

Though not required in the Specifications, valve testing was also performed on the three 12-inch buried butterfly valves leading to the Aqua-NY system. Valve testing took place on April 14, 2012 during system startup. Each valve was already known to hold 200 psi of

pressure based on the pressure testing. The valves were each turned, operated smoothly, and took 30 turns to go from full open to full close as described in the product literature.

All testing was performed under the supervision of the AGVIQ/CH2M HILL QC Manager, Don Conger.

Donald R. Conger III, PE

Youth R. Conga M



## REQUEST FOR INFORMATION

	Freatment LPGAC	KFI NO.:	004	Date Submitted: 3/29/2012			
•	WE23	Project No:	420233				
To:	Greg Pearman, NAVFAC Midlant						
Name Title							
From:	Don Conger		QC Mana				
	Name		Title				
	RE	FERENCES					
Document (Work Plan, Scope of Work, etc.):  Technical Specifications							
Drawing(s)/Specification (L	Prawing No, Specification No., etc.):	Specificat	tion Sections 33 11 00,	43 31 13			
Detail/Section (Page No., Sect	ion No., Paragraph No., etc.):	N/A					
Discipline (Architecture, Electr	ical, Mechanical, Chemical, Hydrogeology, et	Mechanic	al				
POTENTIAL IMPACT	: Cost  Sched	ule	tivity/Task Impacted: U	nderground Pipe Installation			
REQUEST	The specifications call for a 125 ps	i pressure test of t	the tanks, and a 200 psi	test of all piping.			
	The testing cannot be performed as other than with a plug, and there with AQUA NY will not allow any addit pressure of 60 psi. 3. The butterfly 200 psi. 4. The above ground piping Per the conversation between AGV the following testing proceedures with 1. The underground piping will be installed at the connection point to 2. The entire system (underground then be pressure tested at 100 psi. 100 ps	tional pressure to valves provided in provided by C IQ/CH2M HILL, will be used: tested at 200 psi fthe Calgon system piping up to the standard provided by the control of the standard provided in the control of the standard provided in the control of the standard provided in the standard provided	room to install one in the be put on their system as by Calgon on the above algon is not rated for 20. Phillip Ross (the GC), from the new butterfly very (both influent and effluence valves, above grounds).	e underground piping. 2. above their standard operating ground piping are only rated to 00 psi. and TetraTech (David Brayack) alves to a blank-off cap uent lines). and piping, and the vessels) will			
	Please confirm that this revised test		•	7 61			
Requested By: (Name/Company/Title)	Don Conger, QC Manager, CH2M		Response Requested	by Date: 3/30/2012			
REPLY:							
Responded By: (Name/Company/Title)	:		Date of Response:				
RESPONSE DISPOSITION/ CONCURRENCE:							
Response Dispositioned / Cond With By: (Name/Company/Title)	curred		Date Response Dispo	ositioned			
FURTHER ACTIONS RE	EQUIRED:						
REVIEW DISTRIBUTIO	N	FINAL DISTRI	IBUTION				
⊠ CH2M HILL PM ⊠ AGV	Q PM	☐ CH2M HILL PM	ı 🗆				
☐ CH2M HILL CM 🔲 AGV	Q CM	☐ CH2M HILL CM	1 🗆				



## REQUEST FOR INFORMATION

Project Name/Description:	Installation of Interim Emergency escription: Treatment LPGAC		004	Date Submitted: 3/29/2012
☐ CH2M HILL QC	☐ Project Files	☐ CH2M HILL QC		☐ Project Files